SEARS

CRAFTSMAN®

MODEL NUMBER 917.255890 OWNER'S MANUAL

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- Assembly
- Operation
- Customer Responsibilities
- Service
- Adjustments
- Repair Parts

Caution:
Read and Follow all Safety Rules and Instructions Before Operating This Equipment

Sears, Roebuck and Co., Hoffman Estates, IL 60179 U.S.A.

SAFETY RULES

Safe Operation Practices for Ride-On Mowers

IMPORTANT: THIS CUTTING MACHINE IS CAPABLE OF AMPUTATING HANDS AND FEET AND THROWING OBJECTS. FAILURE TO OBSERVE THE FOLLOWING SAFETY INSTRUCTIONS COULD RESULT IN SERIOUS INJURY OR DEATH.

I. GENERAL OPERATION

- Read, understand, and follow all instructions in the manual and on the machine before starting.
- Only allow responsible adults, who are familiar with the instructions, to operate the machine.
- Clear the area of objects such as rocks, toys, wire, etc., which could be picked up and thrown by the blade.
- Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area.
- Never carry passengers.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- Be aware of the mower discharge direction and do not point it at anyone. Do not operate the mower without either the entire grass catcher or the guard in place.
- Slow down before turning.
- Never leave a running machine unattended. Always turn off blades, set parking brake, stop engine, and remove keys before dismounting.
- Turn off blades when not mowing.
- Stop engine before removing grass catcher or unclogging chute.
- Mow only in daylight or good artificial light.
- Do not operate the machine while under the influence of alcohol or drugs.
- Watch for traffic when operating near or crossing roadways.
- Use extra care when loading or unloading the machine into a trailer or truck.

II. SLOPE OPERATION

Slopes are a major factor related to loss-of-control and tipover accidents, which can result in severe injury or death. All slopes require extra caution. If you cannot back up the slope or if you feel uneasy on it, do not mow it.

DO:

- Mow up and down slopes, not across.
- Remove obstacles such as rocks, tree limbs, etc.
- Watch for holes, ruts, or bumps. Uneven terrain could overturn the machine. *Tall grass can hide obstacles.*
- Use slow speed. Choose a low gear so that you will not have to stop or shift while on the slope.
- Follow the manufacturer's recommendations for wheel weights or counterweights to improve stability.
- Use extra care with grass catchers or other attachments. These can change the stability of the machine.
- Keep all movement on the slopes *slow* and *gradual.* Do not make sudden changes in speed or direction.
- Avoid starting or stopping on a slope. If tires lose traction, disengage the blades and proceed slowly *straight* down the slope.

DO NOT:

- *Do not* turn on slopes unless necessary, and then, turn slowly and gradually downhill, if possible.
- *Do not* mow near drop-offs, ditches, or embankments. The mower could suddenly turn over if a wheel is over the edge of a cliff or ditch, or if an edge caves in.
- *Do not* mow on wet grass. Reduced traction could cause sliding.
- *Do not* try to stabilize the machine by putting your foot on the ground.
- *Do not* use grass catcher on steep slopes.

III. CHILDREN

Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the machine and the mowing activity. *Never* assume that children will remain where you last saw them.

- Keep children out of the mowing area and under the watchful care of another responsible adult.
- Be alert and turn machine off if children enter the area.
- Before and when backing, look behind and *down* for small children.
- Never carry children. They may fall off and be seriously injured or interfere with safe machine operation.
- Never allow children to operate the machine.
- Use extra care when approaching blind corners, shrubs, trees, or other objects that may obscure vision.

IV. SERVICE

- Use extra care in handling gasoline and other fuels. They are flammable and vapors are explosive.
  - Use only an approved container.
  - Never remove gas cap or add fuel with the engine running. Allow engine to cool before refueling. Do not smoke.
  - Never refuel the machine indoors.
  - Never store the machine or fuel container inside where there is an open flame, such as a water heater.
- Never run a machine inside a closed area.
- Keep nuts and bolts, especially blade attachment bolts, tight and keep equipment in good condition.
- Never tamper with safety devices. Check their proper operation regularly.
- Keep machine free of grass, leaves, or other debris build-up. Clean oil or fuel spillage. Allow machine to cool before storing.
- Stop and inspect the equipment if you strike an object. Repair, if necessary, before restarting.
- Never make adjustments or repairs with the engine running.
- Grass catcher components are subject to wear, damage, and deterioration, which could expose moving parts or allow objects to be thrown. Frequently check components and replace with manufacturer's recommended parts, when necessary.
- Mower blades are sharp and can cut. Wrap the blade(s) or wear gloves, and use extra caution when servicing them.
- Check brake operation frequently. Adjust and service as required.

Look for this symbol to point out important safety precautions. It means CAUTION!!! BECOME ALERT!!! YOUR SAFETY IS INVOLVED.

CAUTION: Always disconnect spark plug wire and place wire where it cannot contact spark plug in order to prevent accidental starting when setting up, transporting, adjusting or making repairs.

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CONGRATULATIONS on your purchase of a Sears tractor. It has been designed, engineered and manufactured to give you the best possible dependability and performance.

Should you experience any problem you cannot easily remedy, please contact your nearest Sears Service Center/Department. We have competent, well-trained technicians and the proper tools to service or repair this tractor.

Please read and retain this manual. The instructions will enable you to assemble and maintain your tractor properly. Always observe the "SAFETY RULES".

MODEL NUMBER 917.255890

SERIAL NUMBER _____

DATE OF PURCHASE _____

THE MODEL AND SERIAL NUMBERS WILL BE FOUND ON A PLATE UNDER THE SEAT.

YOU SHOULD RECORD BOTH SERIAL NUMBER AND DATE OF PURCHASE AND KEEP IN A SAFE PLACE FOR FUTURE REFERENCE.

MAINTENANCE AGREEMENT

A Sears maintenance agreement is available on this tractor. Contact your nearest Sears store for details.

CUSTOMER RESPONSIBILITIES

- Read and observe the safety rules.
- Follow a regular schedule in maintaining, caring for and using your tractor.
- Follow the instructions under "Customer Responsibilities" and "Storage" sections of this manual.

PRODUCT SPECIFICATIONS

HORSEPOWER:	18.0
GASOLINE CAPACITY:	3.5 GALLONS UNLEADED REGULAR
OIL (3.0 PINTS)	SAE 30 (above 32°F) 5W-30 (below 32°F)
SPARK PLUG (GAP .030 IN.):	CHAMPION RJ19LM
VALVE CLEARANCE:	INTAKE .004-.006 IN. EXHAUST .007-.009 IN.
GROUND SPEED	FORWARD: 1st .70 MPH 2nd 1.10 MPH 3rd 1.80 MPH 4th 3.20 MPH 5th 4.10 MPH 6th 5.30 MPH REVERSE: 1.60 MPH
TIRE PRESSURE:	FRONT: 14 PSI REAR: 10 PSI
CHARGING SYSTEM:	3 AMPS BATTERY 5 AMPS HEADLIGHTS
BLADE BOLT TORQUE:	30-35 FT. LBS.

WARNING: This tractor is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator.

In the state of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester for the muffler is available through your nearest Sears Authorized Service Center (See REPAIR PARTS section of this manual).

LIMITED TWO YEAR WARRANTY ON ELECTRIC START RIDING EQUIPMENT

For two (2) years from the date of purchase, if this riding equipment is maintained, lubricated and tuned up according to the instructions in the owner's manual, Sears will repair or replace, free of charge, any parts found to be defective in material or workmanship.

This Warranty does not cover:

- Expendable items which become worn during normal use, such as blades, spark plugs, air cleaners and belts.
- Tire replacement or repair caused by punctures from outside objects, such as nails, thorns, stumps, or glass.
- Repairs necessary because of operator abuse, negligence, improper storage or accident or the failure to maintain the equipment according to the instructions contained in the owner's manual.
- Riding equipment used for commercial or rental purposes.

LIMITED 90 DAY WARRANTY ON BATTERY

For 90 days from date of purchase, if any battery included with this riding equipment proves defective in material or workmanship and our testing determines the battery will not hold a charge, Sears will replace the battery at no charge.

WARRANTY SERVICE IS AVAILABLE BY RETURNING THE RIDING EQUIPMENT TO THE NEAREST SEARS SERVICE CENTER/DEPARTMENT IN THE UNITED STATES.

This Warranty gives you specific legal rights, and you may also have other rights which may vary from state to state.

SEARS, ROEBUCK AND CO., D/817 WA, HOFFMAN ESTATES, ILLINOIS 60179

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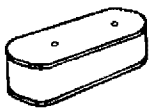
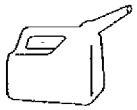
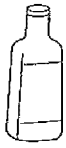
ACCESSORIES AND ATTACHMENTS

These accessories and attachments were available when the unit was purchased. They are also available at most Sears retail outlets, catalog and service centers. Most Sears stores can order these items for you when you provide the model number of your tractor.

ENGINE

SPARK PLUG	MUFFLER	AIR FILTER	GAS CAN	ENGINE OIL	STABILIZER
					

MAINTENANCE

BLADES	BELTS

PERFORMANCE

Sears offers a wide variety of attachments that fit your vehicle. Many of these are listed below with brief explanations of how they can help you. This list was current at the time of publication; however, it may change in future years - more attachments may be added, changes may be made in these attachments, or some may no longer be available or fit your model. **Contact your nearest Sears store for the accessories and attachments that are available for your unit.**

Most of these attachments do not require additional hitches or conversion kits (those that do are indicated) and are designed for easy

LAWN SWEEPERS let you collect grass clippings and leaves.

LAWN VACS for powerful collection of heavy grass clippings and leaves. Wand attachment to pick up debris in hard-to-reach places.

CARTS make hauling easy. Variety of sizes available.

ROLLER for smoother lawn surface. 36-inch wide, 18-inch diameter water-tight drum holds up to 390 lbs. of weight. Rounded edges prevent harm to turf. Adjustable scraper automatically cleans drum.

SPREADER/SEEDERS make seeding, fertilizing, and weed killing easy. Broadcast spreaders are also useful for granular deicers and sand.

CORING AERATOR takes small plugs out of soil to allow moisture and nutrients to reach grass roots. 36-inch swath. 24 hardened steel coring tips. 150 lb. capacity weight tray.

AERATOR promotes deep root growth for a healthy lawn. Tapered 2.5-inch steel spikes mounted on 10-inch diameter discs puncture holes in soil at close intervals to let moisture soak in.

MULCH RAKE/DETHATCHER loosens soil and flips thatch and matted leaves to lawn surface for easy pickup. Twenty spring tine teeth. Useful to prepare bare areas for seeding. Available for front or rear mounting.

SPRAYERS use 12-volt DC electric motor that connects to the tractor battery or other 12-volt source. Includes booms for automatic spraying when pulling, and hand held wand for spot spraying. Wand has adjustable spray pattern. For applying herbicides, insecticides, fungicides, and liquid fertilizers.

SNOWTHROWER has 40-inch swath. Drum-type auger handles powdery and wet/heavy snow. Mounts easily with simple pin arrangement. Discharge chute adjusts from tractor seat. 6-inch diameter spout discharges snow 10 to 50 feet. Lift controlled at tractor seat. (Use with chains, wheel weights, or rear drawbar weight.)

TIRE CHAINS are heavy duty; closely spaced extra-large cross links give smooth ride, outstanding traction.

WHEEL WEIGHTS for rear wheels provide needed traction for snow removal or dozing heavy materials. (55 lbs. each.)

TRACTOR CAB has heavy duty vinyl fabric over tubular steel frame, ABS plastic top; clear plastic windshield offers 360 degree visibility. Hinged metal doors with catch. Keeps operator warm and dry. Remove vinyl and windshields for use as sun protector in summer. (Catalog only.)

Optional accessories for tractor cab: tinted/tempered solid safety glass windshield with hand operated wiper; 12-volt amber caution light for mounting on cab top. (Catalog only.)

TRACTOR COVER protects tractor from weather. Made of Evolution 3 fabric (water-repellent, extremely breathable, light weight, soft, non-abrasive, pliable in all temperatures, durable, stain/tear/puncture resistant, will not shrink or stretch). (Catalog only.)

TILLER has 8 hp engine to prepare seed beds, cultivate, and compost garden residue. Chain-drive transmission. Six 11-inch diameter one piece heat-treated steel tines. Tills 30-inch path. (Requires sleeve hitch.)

TILLER has 5 hp engine and 36-inch swath to prepare seed beds, cultivate, and compost garden residue. Tiller has its own built-in lift and depth control system and does NOT require a sleeve hitch. Fits any lawn, yard, or garden tractor. Simply hook up to the tractor drawbar and go!

DOZER BLADE removes snow; grades dirt, sand and gravel. 48 inches wide, 17 inches high, clears 44-inch path when angled. Master lift control lever for operator ease. Spring trip for snow removal on uneven pavement; built-in float for blade to follow ground contour. Reversible, replaceable scraper bar. (Use with tire chains, wheel weights or rear drawbar weight.)

FRONT END LOADER system includes double wide rear tires, rear weight box, and hydraulically operated 5.26 cu.ft. bucket. (Catalog only.)

REAR BLADE is 42 inches wide and operated from driver's seat. Reversible steel blade can be angled at 30 degrees for grading. Reverses for snow plowing. (Requires sleeve hitch.)

SLEEVE CULTIVATOR is 43 inches wide. Prepares ground for seeding, helps weed control. Steel frame holds 5 adjustable sweeps. Adjusts vertically, horizontally. (Requires sleeve hitch.) Optional accessory for cultivator: steel furrow opener for wider openings for potatoes, corn, and other deep-seeded crops.

PLOW turns soil 6 inches deep, cuts 10-inch furrow. Crank adjustment controls depth, 3-position yoke sets width. Heavy steel landslide for straight furrowing. (Requires sleeve hitch.)

DISC HARROW has 2 gangs of 4 steel blades that angle from 10 to 20 degrees, 40 inches wide. Can hook 2 units in tandem. (Requires sleeve hitch.)

WEIGHT BRACKET for drawbar for snow removal applications. Can be mounted on front of tractor for plowing applications. Uses (1) 55 lb. weight.

SLEEVE HITCH for use with master lift system. Single pin couples/uncouples.

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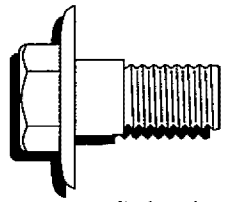
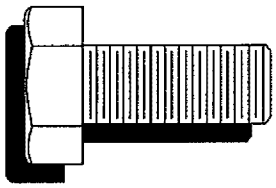
CONTENTS OF HARDWARE PACK

Parts Bag contents shown full size

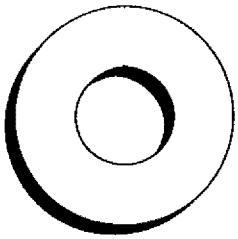


(1) Shoulder Bolt 5/16-18



(1) Hex Bolt 1/2-13 x 1

(1) Lock Washer 1/2



(1) Washer 17/32 x 1-3/16 x 12 Gauge

(2) Hex Bolts 1/4-20 x 3/4

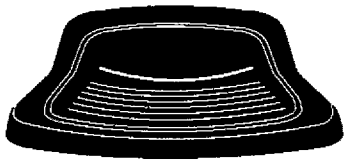
(2) Hex Nuts 1/4-20

(2) Washers 9/32 x 5/8 x 16 Ga.

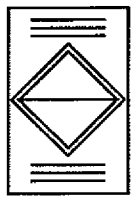
(2) Lock Washers 1/4

(2) Wing Nuts 1/4-20

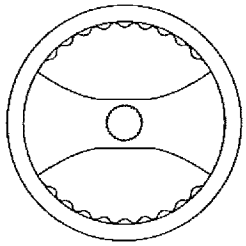
Parts packed separately in carton



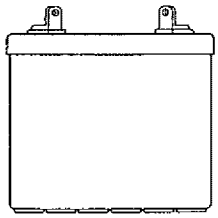
Seat



Battery acid

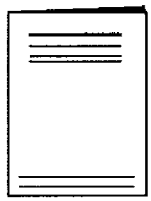


Steering Wheel

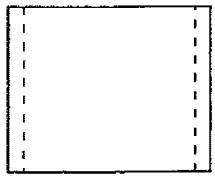


Battery

Steering Sleeve



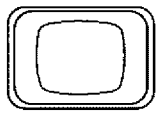
Owner's Manual



Parts Bag

Parts bag contents not shown full size

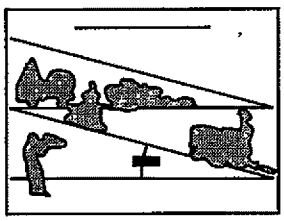
(2) Keys



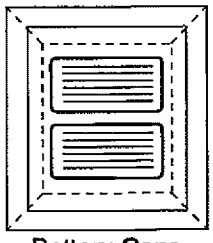
Steering Wheel Insert

(2) Battery Carriage Bolts 1/4-20 x 7-1/2

Terminal Guard



15° Slope Sheet



Battery Caps and Instructions

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ASSEMBLY

Your new tractor has been assembled at the factory with exception of those parts left unassembled for shipping purposes. To ensure safe and proper operation of your tractor, all parts and hardware you assemble must be tightened securely. Use the correct tools as necessary to insure proper tightness.

TOOLS REQUIRED FOR ASSEMBLY

A socket wrench set will make assembly easier. Standard wrench sizes are listed.

(2) 7/16" wrenches
(1) 3/4" wrench
(1) 1/2" wrench
(1) Tire pressure gauge
(1) Utility knife

When right and left hand are mentioned in this manual, it means when you are in the operating position (seated behind the steering wheel).

TO REMOVE TRACTOR FROM CARTON

UNPACK CARTON

- Remove all accessible loose parts and parts cartons from carton (See page 6).
- Cut along lines on the carton, from top to bottom, all four corners of carton and lay panels flat.
- Remove mower deck from skid.
- Check for any additional loose parts or cartons and remove.

BEFORE ROLLING TRACTOR OFF SKID

ATTACH STEERING WHEEL (See Fig. 1)

- Remove locknut and large flat washer from steering shaft.
- Position front wheels of the tractor so they are pointing straight forward.
- Slide steering sleeve over steering shaft.
- Position steering wheel so cross bars are horizontal (left to right) and slide onto adapter.
- Secure steering wheel to steering shaft with hex locknut and large flat washer previously removed. Tighten securely.
- Snap insert into center of steering wheel.
- Remove protective plastic from tractor hood and grill.

IMPORTANT: CHECK FOR AND REMOVE ANY STAPLES IN SKID THAT MAY PUNCTURE TIRES WHERE TRACTOR IS TO ROLL OFF SKID.

TO ROLL TRACTOR OFF SKID (See Fig. 11)

- Raise attachment lift lever to its highest position.
- Place gearshift lever in "NEUTRAL" position.
- Release parking brake by depressing clutch/brake pedal.
- Roll tractor backwards off skid.

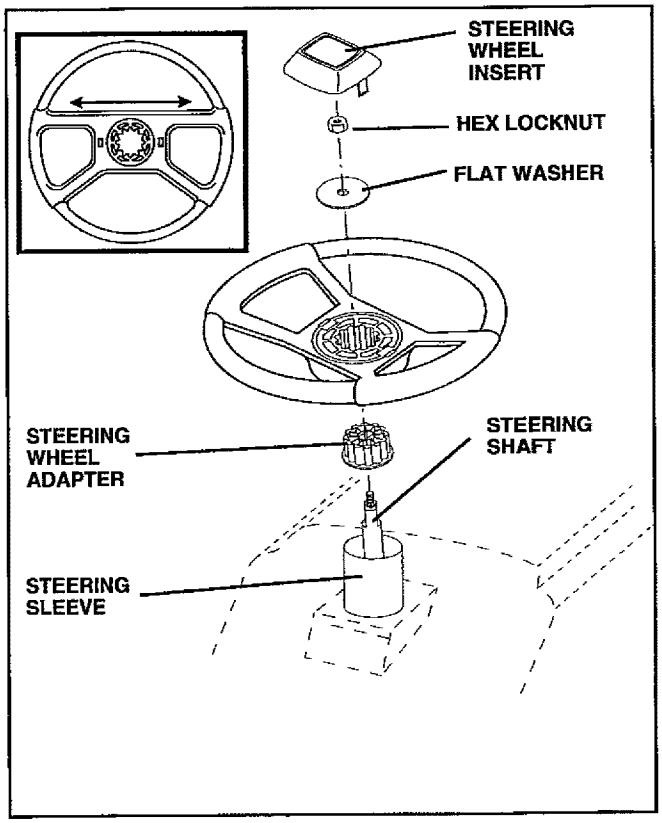

FIG. 1

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ASSEMBLY

HOW TO SET UP YOUR TRACTOR

PREPARE BATTERY (See Fig. 2)

CAUTION: Wear eye and face shield.
Wash hands or clothing immediately if accidentally in contact with battery acid.
Do not smoke. Fumes from charged battery acid are explosive.
Read the instructions included with the battery vent caps. Always wear gloves, clothing and goggles to protect your hands, skin and eyes.

Your tractor has a battery charging system which is sufficient for normal use. However, periodic charging of the battery with an automotive charger will extend its life.

- See instructions packed with vent caps in parts bag.
- Fill battery with acid. Fill each cell until it reaches the bottom of the vent wells. Do not overfill.
- Allow battery to stand and settle for at least thirty minutes. After standing, check the level of acid. If below the vent wells, add more acid until the correct level is reached.

While battery is standing (after adding acid) and later, while battery is being charged, continue with assembly of tractor.

IMPORTANT: TO MAXIMIZE THE LIFE OF YOUR BATTERY, IT IS NECESSARY THAT THE BATTERY BE CHARGED BEFORE USE. FAILURE TO CHARGE BATTERY CAN RESULT IN A SHORTENED BATTERY LIFE.

- Charge battery at a rate of 6 amperes for 1 hour. Use a 12 volt battery charger. Observe all safety precautions required for battery charging.
- Check the acid level after the battery is charged. If the acid has fallen below the correct level, add distilled or iron free water.
- Install the vent caps to cover the vent wells. Wash the top of the battery with water to remove any acid, then wipe dry.
- Check battery case for leakage to make sure that no damage has occurred in handling.
- Dispose of excess battery acid. Neutralize acid for disposal by adding it to four inches of water in a five gallon plastic container. Stir with a wooden or plastic paddle while adding baking soda until the addition of more soda causes no more foaming.
- Follow instructions on how to install battery.

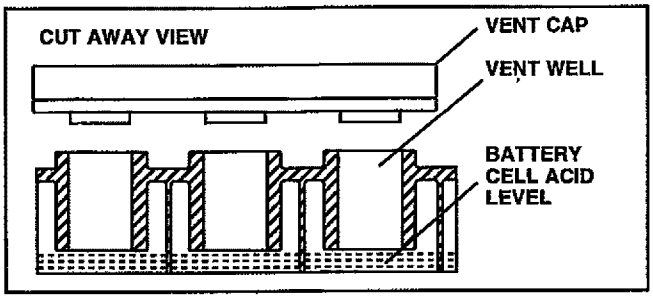

FIG. 2

INSTALL SEAT (See Fig. 3)

Adjust seat before tightening adjustment bolt.

- Remove cardboard packing on seat pan.
- Place seat on pan and assemble shoulder bolt.
- Assemble adjustment bolt, lock washer and flat washer loosely. Do not tighten.
- Tighten shoulder bolt securely.
- Lower seat into operating position and sit on seat.
- Slide seat until a comfortable position is reached which allows you to press clutch/brake pedal all the way down.
- Get off seat without moving its adjusted position.
- Raise seat and tighten adjustment bolt securely.

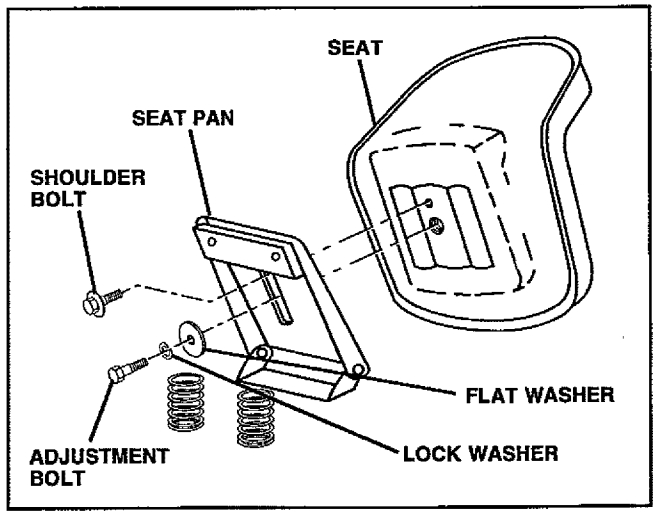

FIG. 3

CHECK TIRE PRESSURE

The tires on your tractor were overinflated at the factory for shipping purposes. Correct tire pressure is important for best cutting performance.

- Reduce tire pressure to PSI shown in "PRODUCT SPECIFICATIONS" on page 3 of this manual.

CHECK BRAKE SYSTEM

After you learn how to operate your tractor, check to see that the brake is properly adjusted. See "TO ADJUST BRAKE" in the Service and Adjustments section of this manual.

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ASSEMBLY

INSTALL MOWER (See Figs. 4, 5, 6 & 7)

- Remove banding holding parallel link up against tractor.
- Remove retainer securing long hinge pin to parallel link and remove long hinge pin.
- Raise attachment lift lever to its highest position.
- Remove banding from mower deck links and V-belt.
- Slide mower under tractor with discharge guard to right side of tractor.
- Attach front of mower to parallel link with long hinge pin. Secure long hinge pin with retainer spring.
- Install clutch rod in clutch lever. Secure with retainer spring.
- Turn height adjustment knob to its lowest setting.
- Lower attachment lift lever to lower suspension arms. Remove retainer springs from lift trunnions.
- Slide trunnions through upper hole in lift brackets and secure with retainer springs.
- Pull L.H. idler pulley toward the right hand side of tractor and roll belt over engine pulley.

NOTE: Mower drive belt installation decal located on mower housing.

- Raise attachment lift lever to raise mower.
- Turn height adjustment knob clockwise to the middle of its travel.

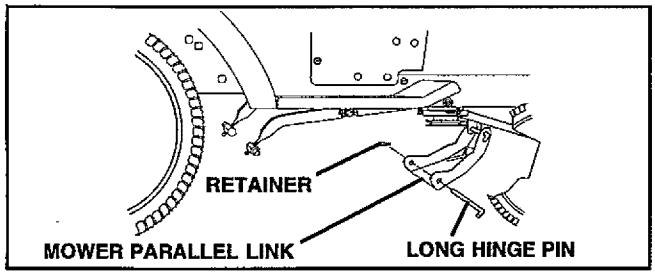

FIG. 4

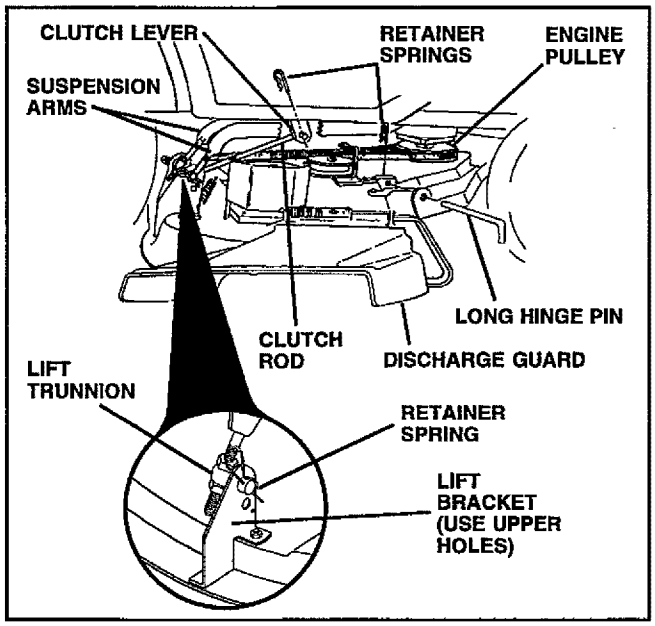

FIG. 5

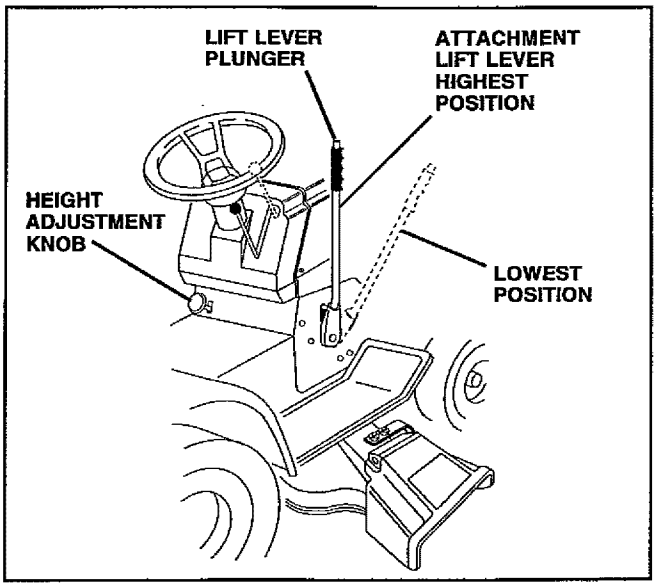

FIG. 6

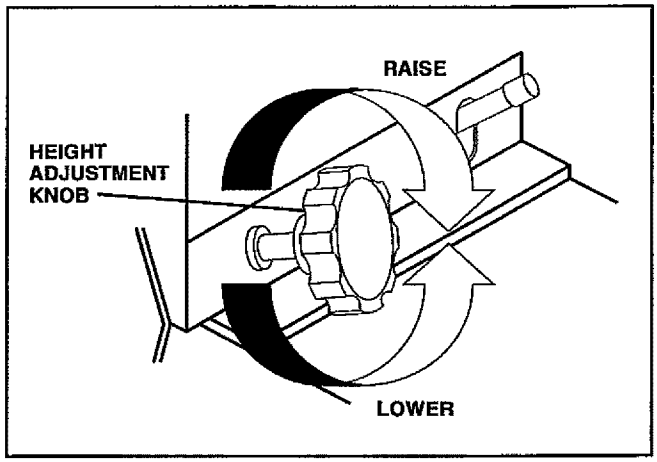

FIG. 7

CHECK DECK LEVELNESS

For best cutting results, mower housing should be properly leveled. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.

CHECK FOR PROPER POSITION OF ALL BELTS

See the figures that are shown for replacing motion, mower drive, and mower blade drive belts in the Service and Adjustments section of this manual. Verify that the belts are routed correctly.

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ASSEMBLY

INSTALL BATTERY (See Figs. 8 and 9)

CAUTION: Do not short battery terminals. Before installing battery, remove metal bracelets, wristwatch bands, rings, etc.

Positive terminal must be connected first to prevent sparking from accidental grounding.

- Make sure drain tube is fastened to drain hole in battery tray and battery tray is positioned in hole of battery support.
- Place battery in plastic tray, battery terminals to front of tractor.
- First connect RED battery cable to positive (+) battery terminal with hex bolt, flat washer, lock washer and hex nut as shown. Tighten securely.
- Connect BLACK grounding cable to negative (-) battery terminal with remaining hex bolt, flat washer, lock washer and hex nut. Tighten securely.
- Slide the two battery bolts through the terminal guard and start the wing nuts onto the threads.
- Position terminal guard over the battery as shown, lower bolts into key holes and slide square shafts of bolts into slots of key holes.
- Tighten wing nuts by hand making sure battery bolts remain in slots of the key holes in the battery support.
- Replace air intake duct. Air duct should be placed so that the bottom edge is between the lip of the battery tray and the battery.
- Be sure terminal access doors are closed.

Use terminal access doors for:

- Inspection for secure connections (to tighten hardware).
- Inspection for corrosion.
- Testing battery.
- Jumping (if required).
- Periodic charging.

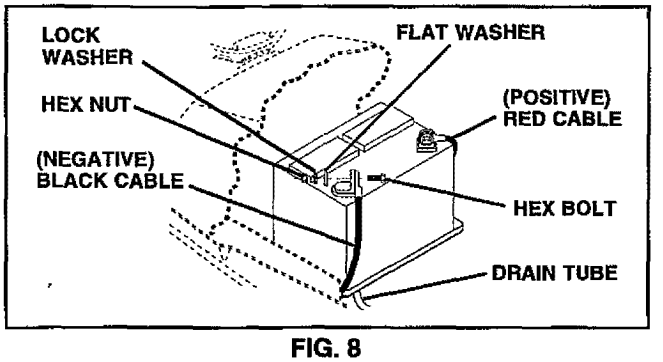

FIG. 8

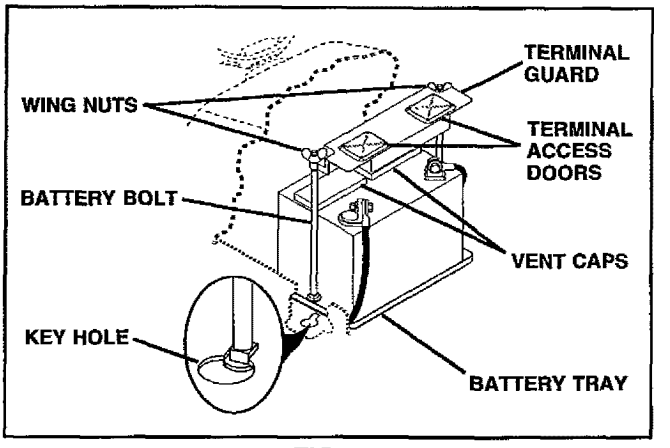

FIG. 9

✓CHECKLIST

BEFORE YOU OPERATE AND ENJOY YOUR NEW TRACTOR, WE WISH TO ASSURE THAT YOU RECEIVE THE BEST PERFORMANCE AND SATISFACTION FROM THIS QUALITY PRODUCT.

PLEASE REVIEW THE FOLLOWING CHECKLIST:

- ✓ All assembly instructions have been completed.
- ✓ No remaining loose parts in carton.
- ✓ Battery is properly prepared and charged. (Minimum 1 hour at 6 amps).
- ✓ Seat is adjusted comfortably and tightened securely.
- ✓ All tires are properly inflated. (For shipping purposes, the tires were over-inflated at the factory).
- ✓ Be sure mower deck is properly leveled side-to-side/ front-to-rear for best cutting results. (Tires must be properly inflated for leveling).
- ✓ Check mower and drive belts. Be sure they are routed properly around pulleys and inside all belt keepers.
- ✓ Check wiring. See that all connections are still secure and wires are properly clamped.

WHILE LEARNING HOW TO USE YOUR TRACTOR, PAY EXTRA ATTENTION TO THE FOLLOWING IMPORTANT ITEMS:

- ✓ Engine oil is at proper level.
- ✓ Fuel tank is filled with fresh, clean, regular unleaded gasoline.
- ✓ Become familiar with all controls-their location and function. Operate them before you start the engine.
- ✓ Be sure brake system is in safe operating condition.

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OPERATION

KNOW YOUR TRACTOR

READ THIS OWNER'S MANUAL AND SAFETY RULES BEFORE OPERATING YOUR TRACTOR.

Compare the illustrations with your tractor to familiarize yourself with the location of various controls and adjustments. Save this manual for future reference.

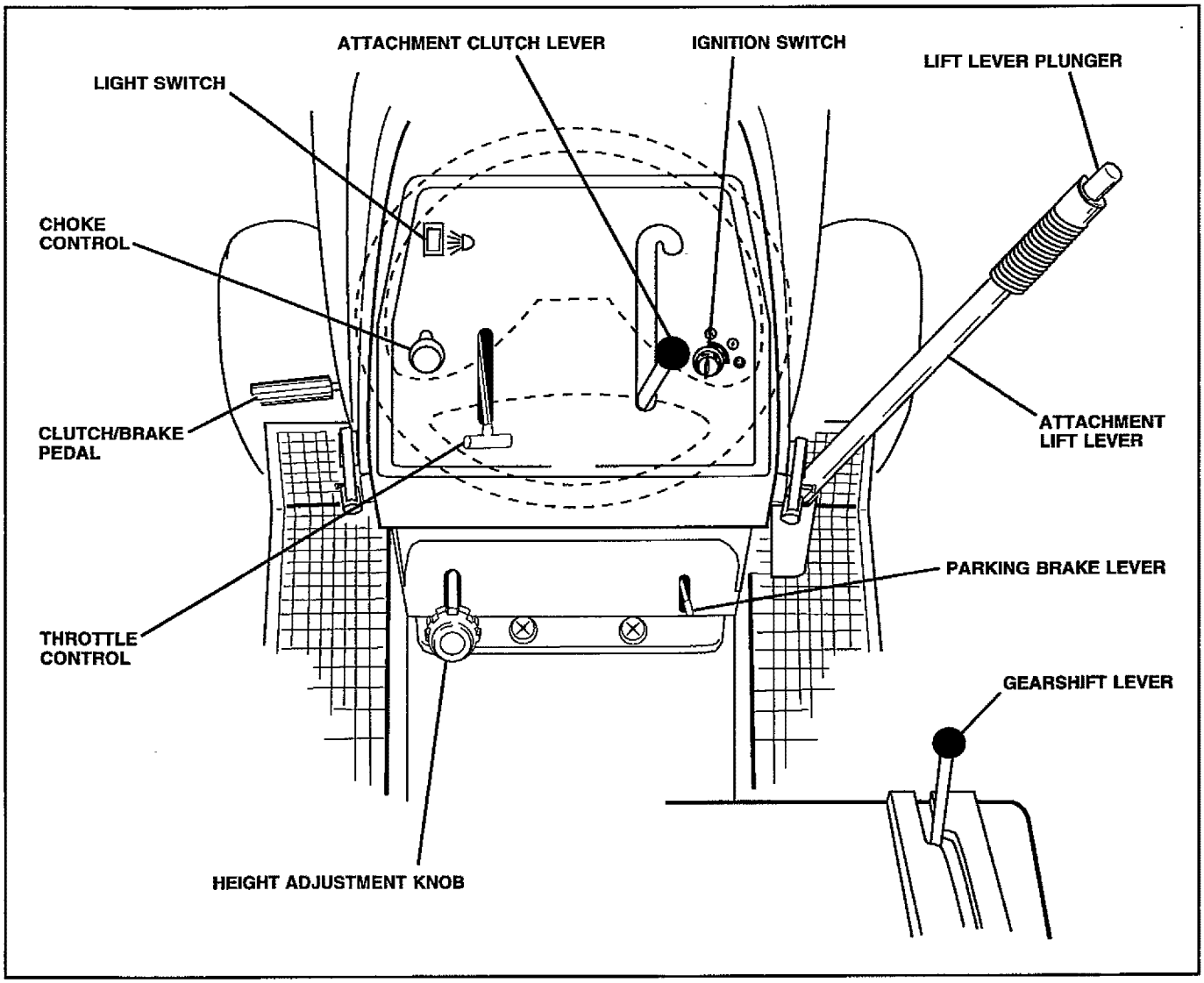

FIG. 10

Sears tractors conform to the safety standards of the American National Standards Institute.

ATTACHMENT CLUTCH LEVER - Used to engage mower blades or other attachments mounted to your tractor.
ATTACHMENT LIFT LEVER - Used to raise and lower mower deck or other attachments mounted to your tractor.
CLUTCH/BRAKE PEDAL - Used for declutching and braking the tractor and starting the engine.
HEIGHT ADJUSTMENT KNOB - Used to adjust the mower height.
IGNITION SWITCH - Used to start and stop the engine.
LIFT LEVER PLUNGER - Used to release attachment lift lever when changing its position.
GEARSHIFT LEVER - Selects the speed and direction of the tractor.
LIGHT SWITCH - Turns the headlights on and off.
PARKING BRAKE LEVER - Locks clutch/brake pedal into the brake position.
THROTTLE CONTROL - Used to control engine speed.
CHOKE CONTROL - Used when starting a cold engine.

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OPERATION

The operation of any tractor can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields before starting your tractor and while moving. We recommend wide vision safety mask for over the spectacles or standard safety glasses.

HOW TO USE YOUR TRACTOR

TO SET PARKING BRAKE (See Fig. 11)

- Depress clutch/brake pedal into full "BRAKE" position and hold.
- Place parking brake lever in "ENGAGED" position and release pressure from clutch/brake pedal. Pedal should remain in "BRAKE" position. Make sure parking brake will hold tractor secure.

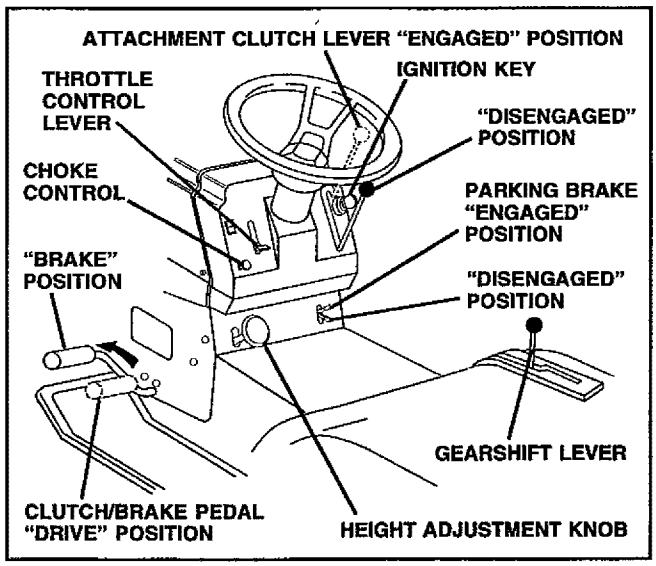

FIG. 11

STOPPING (See Fig. 11)

MOWER BLADES -

- Move attachment clutch lever to "DISENGAGED" position.

GROUND DRIVE -

- Depress clutch/brake pedal into full "BRAKE" position.
- Move gearshift lever to "NEUTRAL" position.

ENGINE -

- Move throttle control to "SLOW" position.

NOTE: Failure to move throttle control to "SLOW" position and allowing engine to idle before stopping may cause engine to "backfire".

- Turn ignition key to "OFF" position and remove key. Always remove key when leaving tractor to prevent unauthorized use.
- Never use choke to stop engine.

NOTE: Under certain conditions when tractor is standing idle with the engine running, hot engine exhaust gasses may cause "browning" of grass. To eliminate this possibility, always stop engine when stopping tractor on grass areas.

CAUTION: Always stop tractor completely, as described above, before leaving the operator's position; to empty grass catcher, etc.

TO USE CHOKE CONTROL (See Fig. 11)

Use choke control whenever you are starting a cold engine. Do not use to start a warm engine.

- To engage choke control, pull knob out. Slowly push knob in to disengage.

TO USE THROTTLE CONTROL (See Fig. 11)

Always operate engine at full throttle.

- Operating engine at less than full throttle reduces the battery charging rate.
- Full throttle offers the best bagging and mower performance.

TO MOVE FORWARD AND BACKWARD (See Fig. 11)

The direction and speed of movement is controlled by the gearshift lever.

- Start tractor with clutch/brake pedal depressed and gearshift lever in "NEUTRAL" position.
- Move gearshift lever to desired position.
- Slowly release clutch/brake pedal to start movement.

IMPORTANT: BRING TRACTOR TO A COMPLETE STOP BEFORE SHIFTING OR CHANGING GEARS. FAILURE TO DO SO WILL SHORTEN THE USEFUL LIFE OF YOUR TRANSAXLE.

TO ADJUST MOWER CUTTING HEIGHT (See Fig. 11)

The cutting height is controlled by turning the height adjustment knob in desired direction.

- Turn knob clockwise (↷) to raise cutting height.
- Turn knob counterclockwise (↶) to lower cutting height.

The cutting height range is approximately 1-1/4" to 3-3/4". The heights are measured from the ground to the blade tip with the engine not running. These heights are approximate and may vary depending upon soil conditions, height of grass and types of grass being mowed.

- The average lawn should be cut to approximately 2-1/2 inches during the cool season and to over 3 inches during hot months. For healthier and better looking lawns, mow often and after moderate growth.
- For best cutting performance, grass over 6 inches in height should be mowed twice. Make the first cut relatively high; the second to desired height.

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OPERATION

TO OPERATE MOWER (See Figs. 11 & 12)

Your tractor is equipped with an operator presence sensing switch. Any attempt by the operator to leave the seat with the engine running and the mower clutch engaged will shut off the engine.

- Select desired height of cut.
- Lower mower with attachment lift control.
- Start mower blades by engaging attachment clutch control.
- TO STOP MOWER BLADES - disengage attachment clutch control.

CAUTION: Do not operate the mower without either the entire grass catcher, on mowers so equipped, or the discharge guard in place.

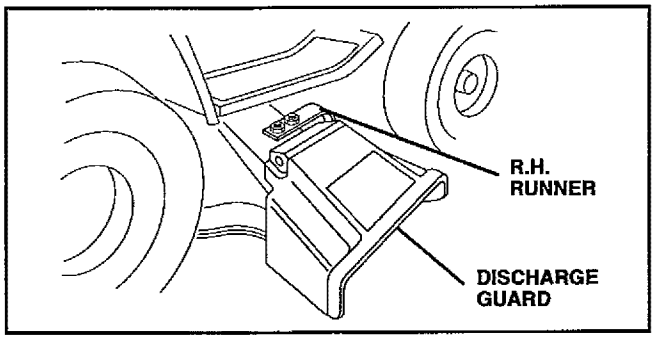

FIG. 12

TO OPERATE ON HILLS

CAUTION: Do not drive up or down hills with slopes greater than 15° and do not drive across any slope.

- Choose the slowest speed before starting up or down hills.
- Avoid stopping or changing speed on hills.
- If slowing is necessary, move throttle control lever to slower position.
- If stopping is absolutely necessary, push clutch/brake pedal quickly to brake position and engage parking brake.
- Move gearshift lever to 1st gear. Be sure you have allowed room for tractor to roll slightly as you restart movement.
- To restart movement, slowly release parking brake and clutch/brake pedal.
- Make all turns slowly.

TO TRANSPORT

- Raise attachment lift control to highest position.
- When pushing or towing your tractor, be sure gearshift lever is in "NEUTRAL" position.
- Do not push tractor at more than five (5) MPH.

NOTE: To protect hood from damage when transporting your tractor on a truck or trailer, be sure hood is closed and secured to tractor. Use an appropriate means of tying hood to tractor (rope, cord, etc.).

BEFORE STARTING THE ENGINE

CHECK ENGINE OIL LEVEL (See Fig. 13)

- The engine in your unit has been shipped, from the factory, already filled with summer weight oil.
- Check engine oil with unit on level ground.
- Remove oil fill cap/dipstick and wipe clean, reinsert the dipstick and screw cap tight, wait for a few seconds, remove and read oil level. If necessary, add oil until "FULL" mark on dipstick is reached. Do not overfill.
- For cold weather operation you should change oil for easier starting (See "OIL VISCOSITY CHART" in the Customer Responsibilities section of this manual).
- To change engine oil, see the Customer Responsibilities section in this manual.

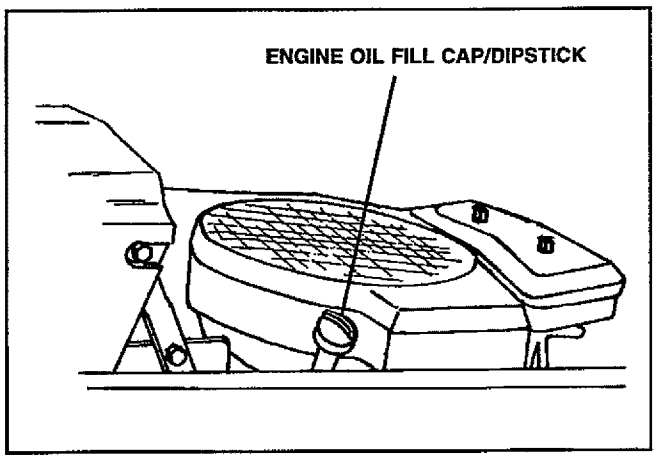

FIG. 13

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OPERATION

ADD GASOLINE

- Fill fuel tank. Use fresh, clean, regular unleaded gasoline. (Use of leaded gasoline will increase carbon and lead oxide deposits and reduce valve life).

IMPORTANT: WHEN OPERATING IN TEMPERATURES BELOW 32°F(0°C), USE FRESH, CLEAN WINTER GRADE GASOLINE TO HELP INSURE GOOD COLD WEATHER STARTING.

WARNING: Experience indicates that alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage. To avoid engine problems, the fuel system should be emptied before storage of 30 days or longer. Drain the gas tank, start the engine and let it run until the fuel lines and carburetor are empty. Use fresh fuel next season. See Storage Instructions for additional information. Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.

CAUTION: Fill to bottom of gas tank filler neck. Do not overfill. Wipe off any spilled oil or fuel. Do not store, spill or use gasoline near an open flame.

TO START ENGINE (See Fig. 11)

When starting engine for the first time or if engine has run out of fuel, it will take extra cranking time to move fuel from the tank to the engine.

- Depress the clutch/brake pedal and set the parking brake.
- Place gearshift lever in "NEUTRAL" position.
- Move attachment clutch to "DISENGAGED" position.
- Pull choke control out to "CHOKE" position for cold engine start. For warm engine start do not use choke control.
- Move throttle control to midway between "FAST" and "SLOW" positions.
- Insert key into ignition and turn ignition key clockwise to "START" position and release key as soon as engine starts. Do not run starter continuously for more than fifteen seconds per minute. If engine does not start after several attempts, move throttle control to "FAST" position, wait a few minutes and try again.
- When engine starts, slowly push choke control in.
- Move throttle control to "FAST" position.
- Allow engine to warm up for a few minutes before engaging clutch/brake pedal or attachment clutch switch.

NOTE: If at a high altitude (above 3000 feet) or in cold temperatures (below 32° F), the carburetor fuel mixture may need to be adjusted for best engine performance. See "TO ADJUST CARBURETOR" in the Service and Adjustments section of this manual.

MOWING TIPS

- Tire chains cannot be used when the mower housing is attached to tractor.
- Mower should be properly leveled for best mowing performance. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.
- Use the runner on the right hand side of mower as a guide. The blade cuts approximately an inch outside the runner (See Fig. 13).
- The left hand side of mower should be used for trimming.
- Drive so that clippings are discharged onto the area that has been cut. Have the cut area to the right of the tractor. This will result in a more even distribution of clippings and more uniform cutting.
- When mowing large areas, start by turning to the right so that clippings will discharge away from shrubs, fences, driveways, etc. After one or two rounds, mow in the opposite direction making left hand turns until finished (See Fig. 14).
- If grass is extremely tall, it should be mowed twice to reduce load and possible fire hazard from dried clippings. Make first cut relatively high; the second to the desired height.
- Do not mow grass when it is wet. Wet grass will plug mower and leave undesirable clumps. Allow grass to dry before mowing.
- Always operate engine at full throttle when mowing to assure better mowing performance and proper discharge of material. Regulate ground speed by selecting a low enough gear to give the mower cutting performance as well as the quality of cut desired.
- When operating attachments, select a ground speed that will suit the terrain and give best performance of the attachment being used.

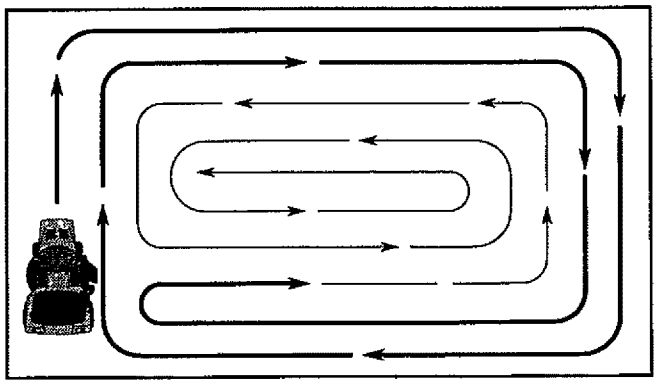

FIG. 14

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CUSTOMER RESPONSIBILITIES

MAINTENANCE SCHEDULE FILL IN DATES AS YOU COMPLETE REGULAR SERVICE		BEFORE EACH USE	FIRST 2 HOURS	EVERY 8 HOURS	EVERY 25 HOURS	EVERY 50 HOURS	EVERY 100 HOURS	EVERY SEASON	BEFORE STORAGE	SERVICE DATES				
TRACTOR	Check Brake Operation	✔		✔										
	Check Tire Pressure	✔		✔										
	Check for Loose Fasteners	✔							✔					
	Sharpen/Replace Mower Blades				✔4									
	Lubrication Chart				✔				✔					
	Check Battery Level/Recharge				✔									
	Clean Battery and Terminals				✔				✔					
	Check Transaxle Cooling				✔									
	Adjust Blade Belt(s) Tension						✔5							
	Adjust Motion Drive Belt(s) Tension						✔5							
ENGINE	Check Engine Oil Level	✔		✔										
	Change Engine Oil		✔		✔1,2,3				✔					
	Clean Air Filter				✔2									
	Clean Air Screen				✔2									
	Inspect Muffler/Spark Arrester					✔								
	Replace Oil Filter (If equipped)						✔1,2							
	Clean Engine Cooling Fins						✔2							
	Replace Spark Plug						✔	✔						
	Replace Air Filter Paper Cartridge						✔2							
	Replace Fuel Filter							✔						

1 - Change more often when operating under a heavy load or in high ambient temperatures.
2 - Service more often when operating in dirty or dusty conditions.
3 - If equipped with oil filter, change oil every 50 hours.
4 - Replace blades more often when mowing in sandy soil.
5 - If equipped with adjustable system.

GENERAL RECOMMENDATIONS

The warranty on this tractor does not cover items that have been subjected to operator abuse or negligence. To receive full value from the warranty, operator must maintain tractor as instructed in this manual.

Some adjustments will need to be made periodically to properly maintain your tractor.

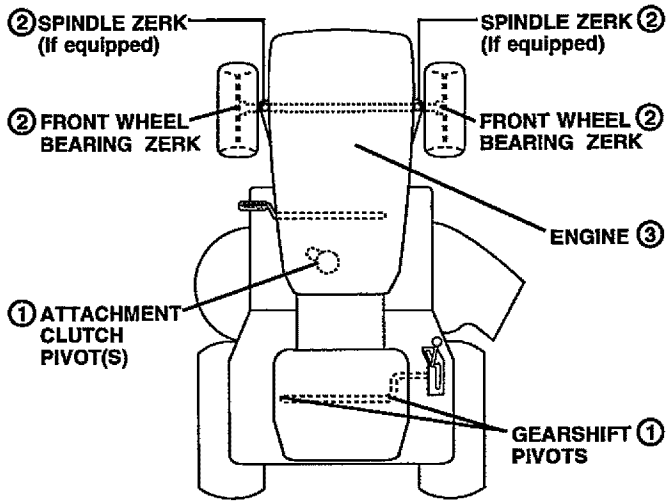
All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

- Once a year you should replace the spark plug, clean or replace air filter, and check blades and belts for wear. A new spark plug and clean air filter assure proper air-fuel mixture and help your engine run better and last longer.

BEFORE EACH USE

- Check engine oil level.
- Check brake operation.
- Check tire pressure.
- Check for loose fasteners.

LUBRICATION CHART


②SPINDLE ZERK (If equipped)
SPINDLE ZERK ② (If equipped)
② FRONT WHEEL BEARING ZERK
FRONT WHEEL ② BEARING ZERK
ENGINE ③
① ATTACHMENT CLUTCH PIVOT(S)
GEARSHIFT ① PIVOTS

①SAE 30 OR 10W30 MOTOR OIL API - SG

②GENERAL PURPOSE GREASE

③REFER TO CUSTOMER RESPONSIBILITIES "ENGINE" SECTION

IMPORTANT: DO NOT OIL OR GREASE THE PIVOT POINTS WHICH HAVE SPECIAL NYLON BEARINGS. VISCOUS LUBRICANTS WILL ATTRACT DUST AND DIRT THAT WILL SHORTEN THE LIFE OF THE SELF-LUBRICATING BEARINGS. IF YOU FEEL THEY MUST BE LUBRICATED, USE ONLY A DRY, POWDERED GRAPHITE TYPE LUBRICANT SPARINGLY.

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CUSTOMER RESPONSIBILITIES

TRACTOR

Always observe safety rules when performing any maintenance.

BRAKE OPERATION

If tractor requires more than six (6) feet stopping distance at high speed in highest gear, then brake must be adjusted. (See "TO ADJUST BRAKE" in the Service and Adjustments section of this manual).

TIRES

- Maintain proper air pressure in all tires (See "PRODUCT SPECIFICATIONS" on page 3 of this manual).
- Keep tires free of gasoline, oil, or insect control chemicals which can harm rubber.
- Avoid stumps, stones, deep ruts, sharp objects and other hazards that may cause tire damage.

BLADE CARE

For best results mower blades must be kept sharp. Replace bent or damaged blades.

BLADE REMOVAL (See Fig. 15)

- Raise mower to highest position to allow access to blades.
- Remove hex bolt, lock washer and flat washer securing blade.
- Install new or resharpened blade with trailing edge up towards deck as shown.
- Reassemble hex bolt, lock washer and flat washer in exact order as shown.
- Tighten bolt securely (30-35 Ft. Lbs. torque).

IMPORTANT: BLADE BOLT IS GRADE 5 HEAT TREATED.

NOTE: We do not recommend sharpening blade - but if you do, be sure the blade is balanced.

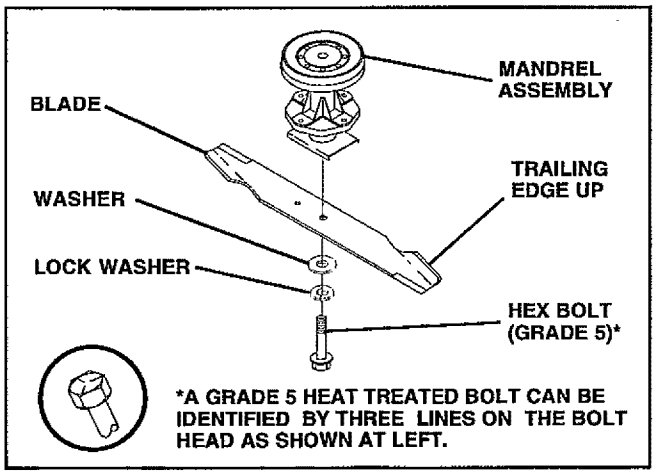
MANDREL ASSEMBLY
BLADE
TRAILING EDGE UP
WASHER
LOCK WASHER
HEX BOLT (GRADE 5)*
*A GRADE 5 HEAT TREATED BOLT CAN BE IDENTIFIED BY THREE LINES ON THE BOLT HEAD AS SHOWN AT LEFT.

FIG. 15

TO SHARPEN BLADE (See Fig. 16)

Care should be taken to keep the blade balanced. An unbalanced blade will cause excessive vibration and eventual damage to mower and engine.

- The blade can be sharpened with a file or on a grinding wheel. Do not attempt to sharpen while on the mower.
- To check blade balance, drive a nail into a beam or wall. Leave about one inch of the straight nail exposed. Place center hole of blade over the head of the nail. If blade is balanced, it should remain in a horizontal position. If either end of the blade moves downward, sharpen the heavy end until the blade is balanced.

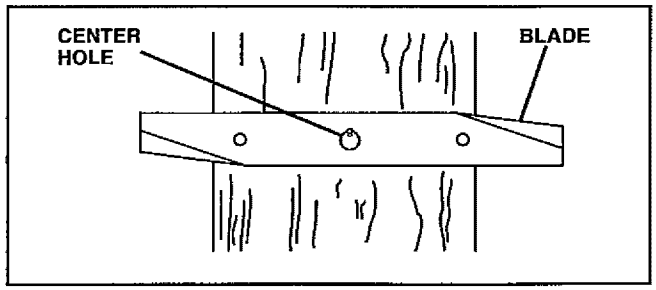

FIG. 16

BATTERY (See Fig. 17)

Your tractor has a battery charging system which is sufficient for normal use. However, periodic charging of the battery with an automotive charger will extend it's life.

- Acid solution level in each battery cell should be even with bottoms of vent wells. Add only distilled or iron free water if necessary. Do not overfill.
- Keep battery and terminals clean.
- Keep battery bolts tight.
- Keep vent caps tight and small vent holes in caps open.
- Recharge at 6 amperes for 1 hour.

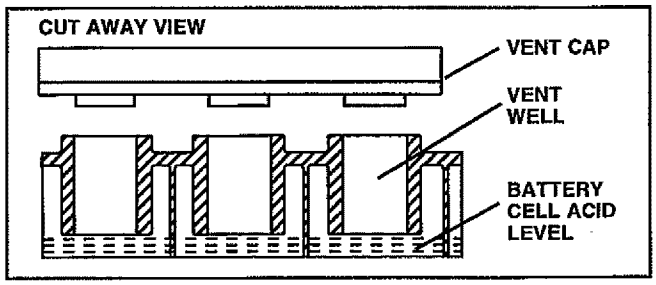

FIG. 17

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CUSTOMER RESPONSIBILITIES

TO CLEAN BATTERY AND TERMINALS -

Corrosion and dirt on the battery and terminals can cause the battery to "leak" power.

- Remove terminal guard.
- Disconnect BLACK battery cable first then RED battery cable and remove battery from tractor.
- Wash battery with solution of four tablespoons of baking soda to one gallon of water. Be careful not to get the soda solution into the cells.
- Rinse the battery with plain water and dry.
- Clean terminals and battery cable ends with wire brush until bright.
- Coat terminals with grease or petroleum jelly.
- Reinstall battery (See "INSTALL BATTERY" in the Assembly section of this manual).

V- BELTS

Check V-Belts for deterioration and wear after 100 hours and replace if necessary. The mower blade drive belt can be adjusted to provide you with longer belt life (See "TO ADJUST MOWER BLADE DRIVE BELT" in the Service and Adjustments section of this manual). The motion drive belt is not adjustable. Replace belts if they begin to slip from wear.

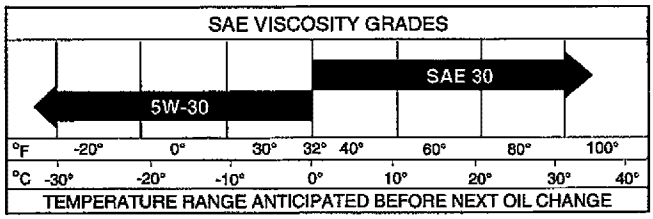
TRANSAXLE COOLING

Keep transaxle free from build-up of dirt and chaff which can restrict cooling.

ENGINE

LUBRICATION

Only use high quality detergent oil rated with API service classification SG. Select the oil's SAE viscosity grade according to your expected operating temperature.


SAE VISCOSITY GRADES
SAE 30
5W-30
°F -20° 0° 30° 32° 40° 60° 80° 100°
°C -30° -20° -10° 0° 10° 20° 30° 40°
TEMPERATURE RANGE ANTICIPATED BEFORE NEXT OIL CHANGE

NOTE: Although multi-viscosity oils (5W30, 10W30, etc.) improve starting in cold weather, these multi-viscosity oils will result in increased oil consumption when used above 32°F. Check your engine oil level more frequently to avoid possible engine damage from running low on oil.

Change the oil after the first two hours of operation and every 25 hours of operation thereafter or at least once a year if the tractor is not used for 25 hours in one year.

Check the crankcase oil level before starting the engine and after each eight (8) hours of operation. Tighten oil fill cap/dipstick securely each time you check the oil level.

TO CHANGE ENGINE OIL (See Fig. 18) -

Determine temperature range expected before oil change. All oil must meet API service classification SG.

- Be sure tractor is on level surface.
- Oil will drain more freely when warm.
- Catch oil in a suitable container.
- Remove oil filler cap. Be careful not to allow dirt to enter the engine when changing oil.
- Remove drain plug.
- After oil has drained completely, replace oil drain plug and tighten securely.
- Refill engine with oil through oil fill dipstick tube. Pour slowly. Do not overfill. For approximate capacity see "PRODUCT SPECIFICATIONS" on page 3 of this manual.
- Use gauge on oil fill dipstick for checking level. Be sure dipstick is tightened securely for accurate reading. Keep oil at "FULL" line on dipstick.

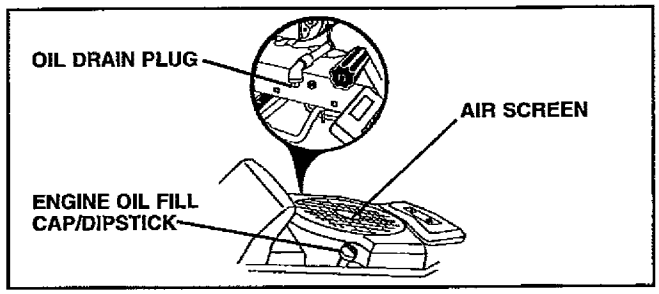


FIG. 18

CLEAN AIR SCREEN (See Fig. 18)

The air screen must be kept free of dirt and chaff to prevent engine damage from overheating. Clean with a wire brush or compressed air to remove dirt and stubborn dried gum fibers.

CLEAN ENGINE COOLING FINS (See Fig. 19)

Remove any dust, dirt or oil from engine cooling fins to prevent engine damage from overheating. Engine blower housing must be removed. Remove side panels and hood (See "TO REMOVE HOOD AND GRILL ASSEMBLY" in the Service and Adjustments section of this manual.)

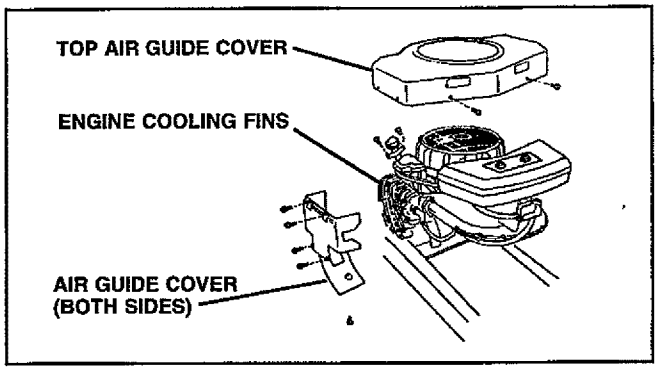


FIG. 19

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CUSTOMER RESPONSIBILITIES

AIR FILTER (See Fig. 20)

Your engine will not run properly using a dirty air filter. Clean the foam pre-cleaner element after every 25 hours of operation or every season. Service paper cartridge every 100 hours of operation or every season, whichever occurs first.

Service air cleaner more often under dusty conditions.

- Remove knob(s) and cover.

TO SERVICE PRE-CLEANER -

- Slide foam pre-cleaner off cartridge.
- Wash it in liquid detergent and water.
- Squeeze it dry in a clean cloth.
- Saturate it in engine oil. Wrap it in clean, absorbent cloth and squeeze to remove excess oil.
- Reinstall pre-cleaner over cartridge.
- Reinstall cover and secure with knob(s).

TO SERVICE CARTRIDGE -

- Remove wing nuts and cartridge plate.
- Remove cartridge and clean by tapping gently on flat surface.
- If very dirty, replace or wash in a nonsudsing detergent and warm water solution. Rinse thoroughly with water from inside out until water runs clear. Let cartridge dry thoroughly before using.
- Reinstall cartridge plate, wing nuts, precleaner, cover and secure with knob(s).

IMPORTANT: PETROLEUM SOLVENTS, SUCH AS KEROSENE, ARE NOT TO BE USED TO CLEAN THE CARTRIDGE. THEY MAY CAUSE DETERIORATION OF THE CARTRIDGE. DO NOT OIL CARTRIDGE. DO NOT USE PRESSURIZED AIR TO CLEAN OR DRY CARTRIDGE.

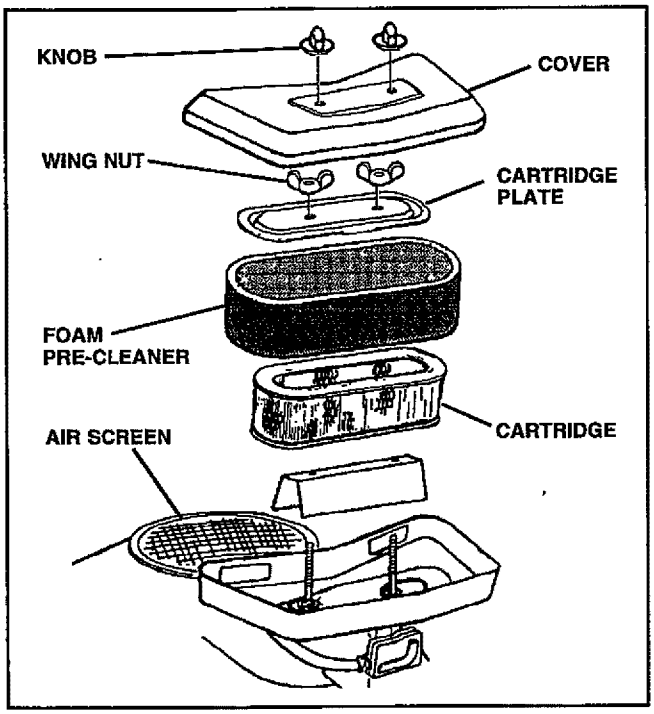

FIG. 20

MUFFLER

Inspect and replace corroded muffler and spark arrester (if equipped) as it could create a fire hazard and/or damage.

SPARK PLUGS

Replace spark plugs at the beginning of each mowing season or after every 100 hours of operation, whichever comes first. Spark plug type and gap setting are shown in "PRODUCT SPECIFICATIONS" on page 3 of this manual.

IN-LINE FUEL FILTER (See Fig. 21)

The fuel filter should be replaced once each season. If fuel filter becomes clogged, obstructing fuel flow to carburetor, replacement is required.

- With engine cool, remove filter and plug fuel line sections.
- Place new fuel filter in position in fuel line with arrow pointing towards carburetor.
- Be sure there are no fuel line leaks and clamps are properly positioned.
- Immediately wipe up any spilled gasoline.

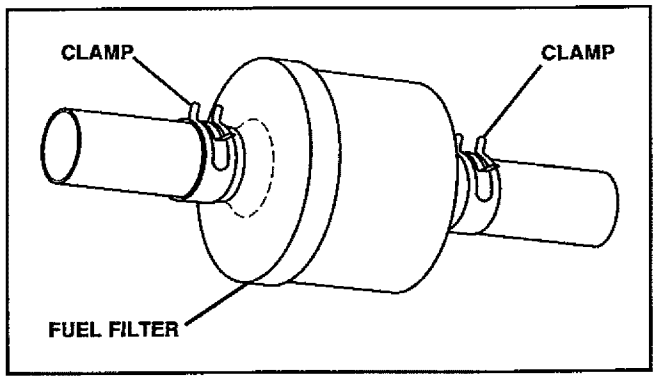

FIG. 21

CLEANING

- Clean engine, battery, seat, finish, etc. of all foreign matter.
- Keep finished surfaces and wheels free of all gasoline, oil, etc.
- Protect painted surfaces with automotive type wax.

We do not recommend using a garden hose to clean your tractor unless the electrical system, muffler, air filter and carburetor are covered to keep water out. Water in engine can result in a shortened engine life.

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SERVICE AND ADJUSTMENTS

CAUTION: BEFORE PERFORMING ANY SERVICE OR ADJUSTMENTS:

- **Depress clutch/brake pedal fully and set parking brake.**
- **Place gearshift lever in "NEUTRAL" position.**
- **Place attachment clutch in "DISENGAGED" position.**
- **Turn ignition key "OFF" and remove key.**
- **Make sure the blades and all moving parts have completely stopped.**
- **Disconnect spark plug wire from spark plug and place wire where it cannot come in contact with plug.**

TO REMOVE MOWER (See Fig. 22)

Mower will be easier to remove from the right side of tractor.

- Remove mower drive belt from engine pulley only (See "TO REPLACE MOWER DRIVE BELT" through step removing belt from mower drive pulley.)
- Remove retainer spring from clutch rod, pull clutch rod out of clutch lever.
- Pull retainer springs out of rear suspension trunnions.
- Remove rear suspension trunnions from lift brackets.
- Pull retainer springs from front hinge pins.
- Remove hinge pins attaching parallel link to mower and front axle.
- Raise lift lever to raise suspension arms. Slide mower out from under tractor.

IMPORTANT: IF AN ATTACHMENT OTHER THAN THE MOWER DECK IS TO BE MOUNTED ON THE TRACTOR, REMOVE THE L.H. AND R.H. SUSPENSION ARMS AND THE FRONT SUSPENSION BRACKET.

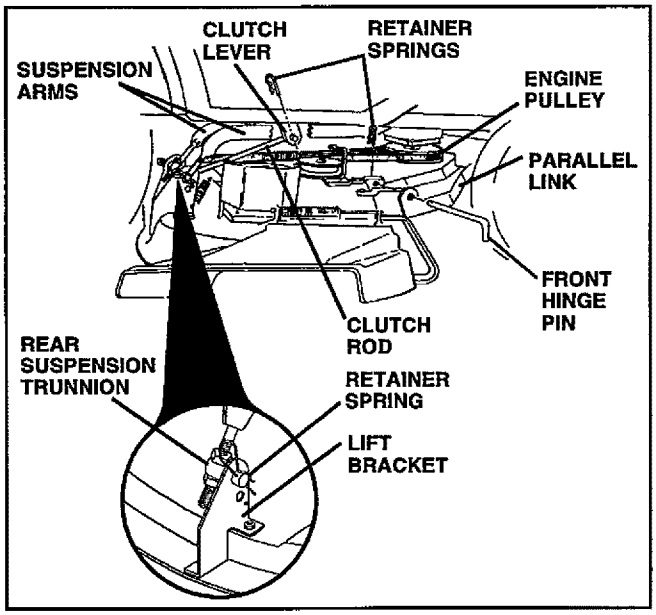

FIG. 22

TO INSTALL MOWER

See "INSTALL MOWER" in the Assembly section of this manual.

TO LEVEL MOWER HOUSING

Adjust the mower while tractor is parked on level ground or driveway. Make sure tires are properly inflated (See "PRODUCT SPECIFICATIONS" on page 3). If tires are over or underinflated, you will not properly adjust your mower.

SIDE-TO-SIDE ADJUSTMENT (See Figs. 23 and 24)

- Raise attachment lift lever to its highest position.
- Measure height from bottom deck curl to ground level at front corners of mower. Distance "A" should be the same.
- If distance "A" needs to be changed, snap out access hole cover on left side of tractor above footrest.
- To raise left side of mower, loosen nut "B" and tighten nut "C".
- To lower left side of mower, loosen nut "C" and tighten nut "B".
- When distance "A" is equal, securely tighten nuts "B" and "C".
- Replace access hole cover.

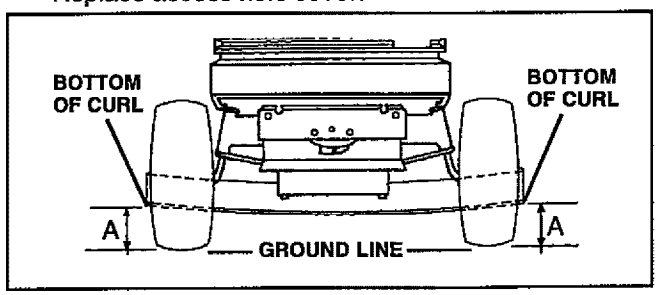

FIG. 23

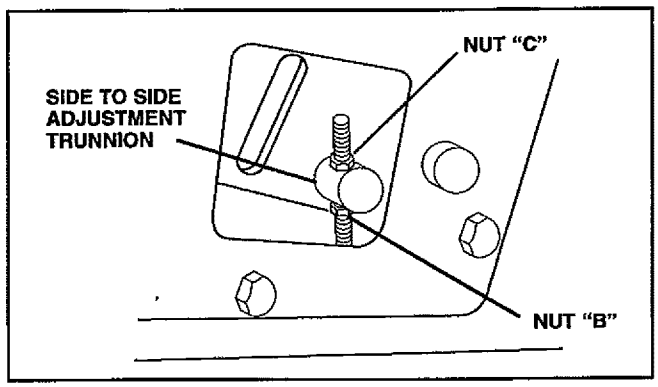

FIG. 24

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SERVICE AND ADJUSTMENTS

FRONT-TO-BACK ADJUSTMENT (See Figs. 25 and 26)

To obtain the best cutting results, the mower housing should be adjusted so the back is approximately 7/8" to 1-1/8" higher than the front when the mower is in highest adjustment position.

Measure distance "D" from ground line to bottom of deck curl at centerline outside of mandrels.

- To raise rear of mower, loosen nut "E" on both rear suspension arms. Screw both nuts "F" on both rear suspension arms an equal number of turns.
- When distance "D" is 7/8" to 1-1/8" higher at rear than front, retighten nuts "E".
- Recheck side-to-side adjustment.

IMPORTANT: WHEN ADJUSTING REAR SUSPENSION ARMS, ALWAYS ADJUST BOTH EQUALLY SO MOWER WILL STAY LEVEL SIDE-TO-SIDE.

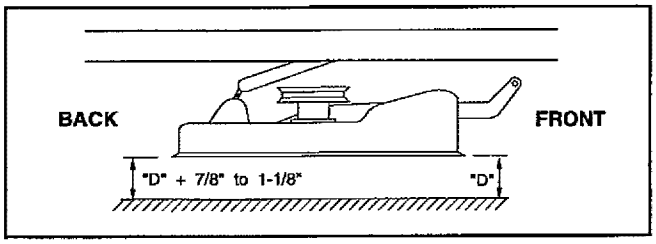

FIG. 25

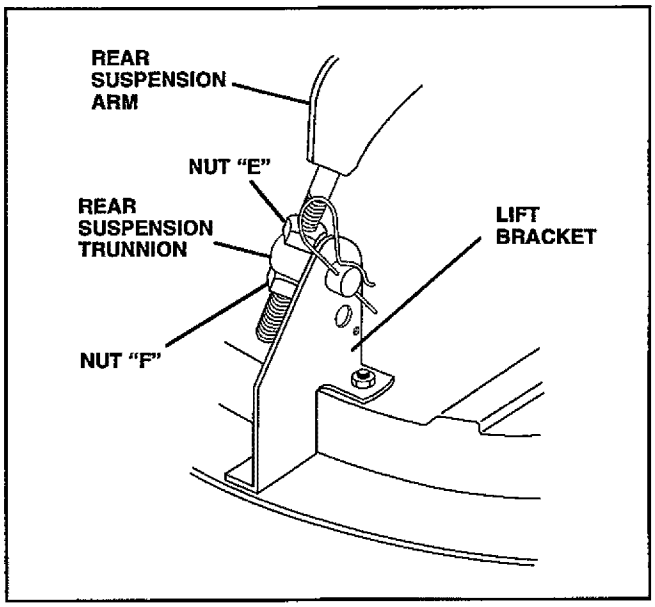

FIG. 26

TO ADJUST MOWER DRIVE BELT (See Fig. 27)

Your tractor has been manufactured with the ability to re-adjust mower drive belt to provide you with longer belt life.

If the attachment clutch lever travels forward in the slot before spring tension resistance is evident, adjustment is necessary.

IMPORTANT: CHECK FOR PROPER SPRING TENSION WITH ENGINE OFF AND LIFT LEVER IN HIGHEST POSITION.

- Remove mower deck from tractor (See "TO REMOVE MOWER" in this section of this manual).
- Remove cotter pin from L.H. side of rock shaft assembly.
- Loosen the four locknuts on the R.H. and L.H. pivot brackets only until rock shaft assembly can be removed.
- Remove rock shaft assembly from pivot brackets.
- Remove extension spring from lower hole (original position) in rock shaft assembly and place in upper hole.
- Replace rock shaft assembly making sure carriage bolts are seated in square holes of mower housing.
- Replace cotter pin on L.H. side of rock shaft assembly.

NOTE: When installing a new belt, extension spring must be returned to lower hole (original position) on rock shaft assembly.

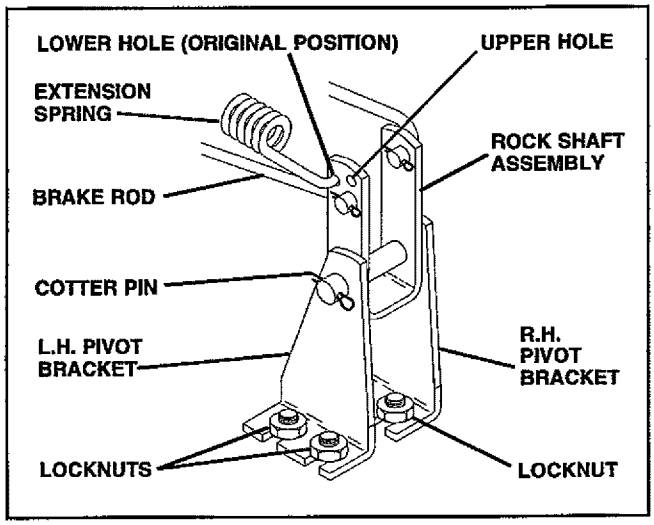

FIG. 27

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SERVICE AND ADJUSTMENTS

TO REPLACE MOWER DRIVE BELT (See Figs. 28 and 29)

Park the tractor on level surface. Engage parking brake.

BELT REMOVAL -

- Place attachment clutch in "DISENGAGED" position.
- Turn height adjustment knob to lowest setting.
- Move attachment lift lever forward to lower mower to its lowest position.
- Roll belt off engine pulley.
- Pull belt off mower pulley and both idler pulleys.
- Slide belt from under spring.

NOTE: If necessary loosen guards and belt guides for ease of belt removal and installation.

BELT INSTALLATION -

- Slide belt under spring.
- Place belt around mower pulley and both idler pulleys.
- Roll belt over engine pulley.
- Make sure belt is in all pulley grooves and inside all belt guides.

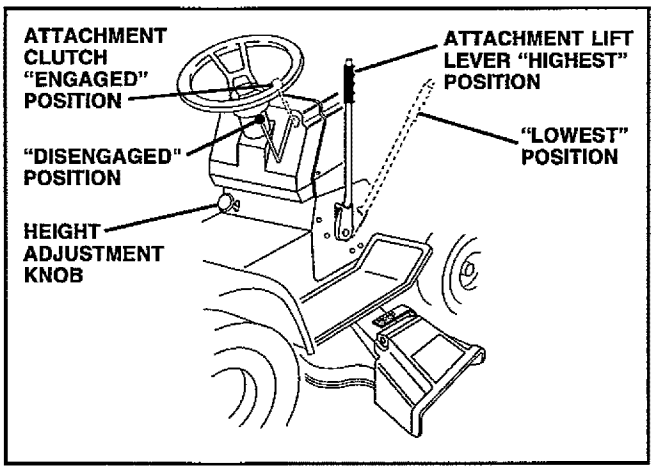

FIG. 28

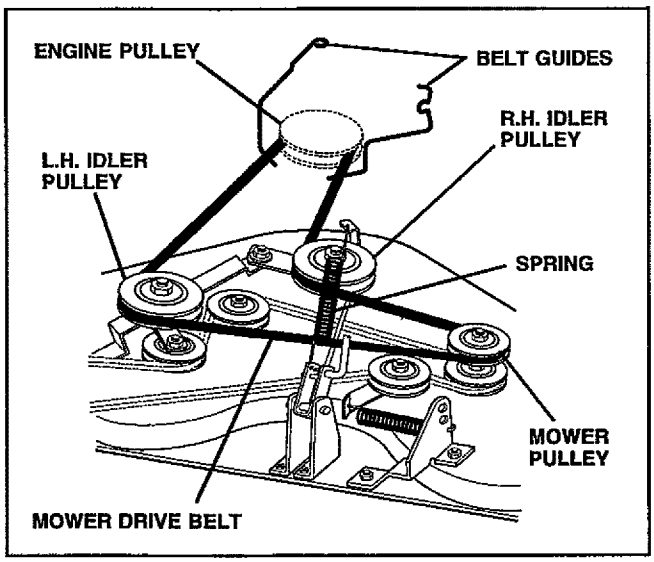

FIG. 29

TO REPLACE MOWER BLADE DRIVE BELT (See Figs. 30, 31 and 32)

- Remove mower (See "TO REMOVE MOWER" in this section of this manual).
- Remove mower drive belt (See "TO REPLACE MOWER DRIVE BELT" in this section of this manual).
- Pull mower blade drive belt towards rear of mower at tensioning pulley. Place a block between tensioning pulley and pivot bracket. Roll belt off tensioning pulley.
- Roll belt off all other pulleys.
- Use pliers to remove brake spring.
- Remove cotter pin from brake rod; then remove brake rod from rock shaft assembly.
- Pull belt out from under brake rod and off mower.
- To install belt, reverse above procedure. Make sure belt is engaged in all pulleys.

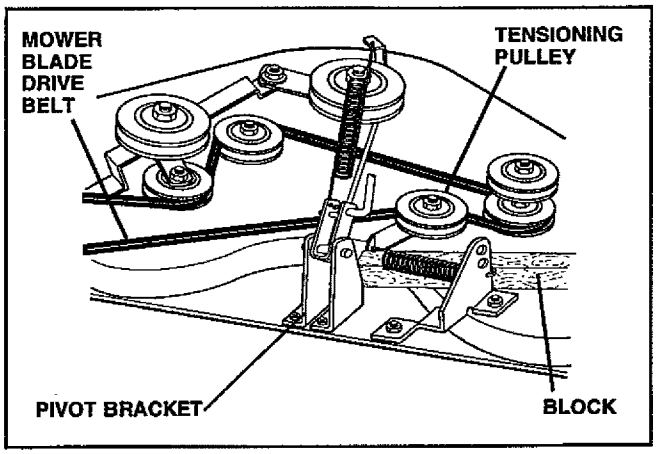

FIG. 30

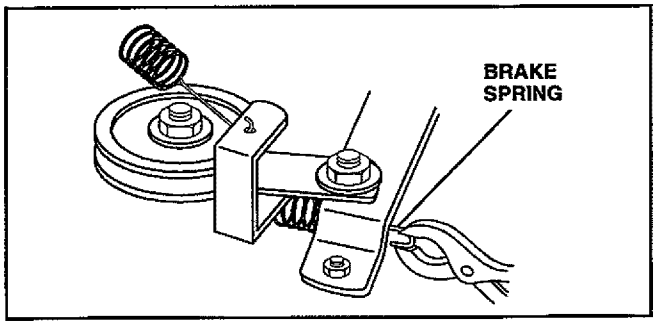

FIG. 31

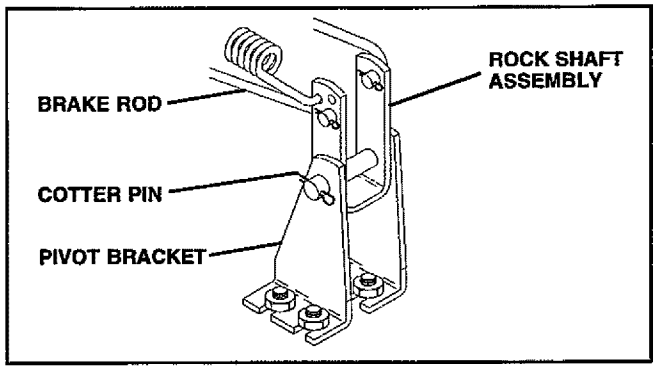

FIG. 32

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SERVICE AND ADJUSTMENTS

TO ADJUST BRAKE (See Fig. 33)

Your tractor is equipped with an adjustable brake system which is mounted on the right side of the transaxle.

If tractor requires more than six (6) feet stopping distance at high speed in highest gear, then brake must be adjusted.

- Depress clutch/brake pedal and engage parking brake.
- Measure distance between brake operating arm and nut "A" on brake rod.
- If distance is other than 1-12", disengage parking brake, loosen jam nut and turn nut "A" until distance becomes 1-1/2". Retighten jam nut against nut "A".
- Engage parking brake and recheck distance.
- Road test unit for proper stopping distance as stated above. Readjust if necessary. If stopping distance is still greater than six (6) feet in highest gear, further maintenance is necessary. Contact your nearest authorized service center.

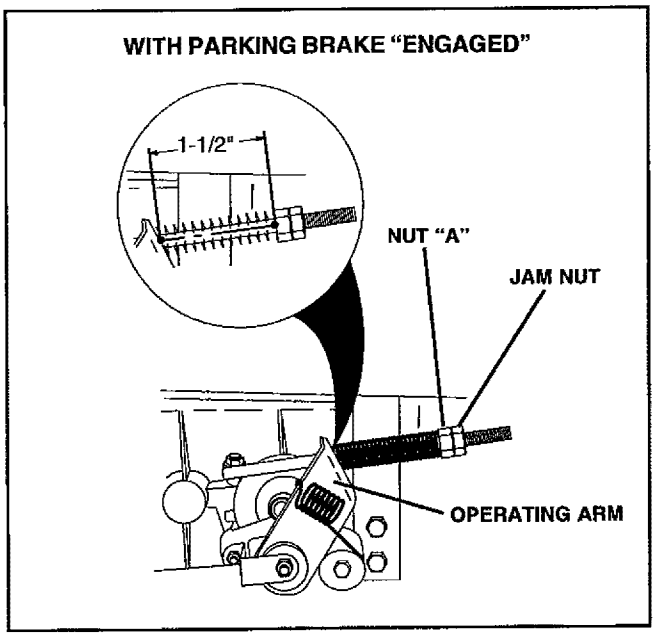

FIG. 33

TO REPLACE MOTION DRIVE BELT (See Fig. 34)

Park the tractor on level surface. Engage parking brake. For assistance, there is a belt installation guide decal on bottom side of left footrest.

- Remove mower (See "TO REMOVE MOWER" in this section of this manual.)
- Remove upper belt keeper.
- Remove belt from stationary idler and clutching idler.
- Pull belt slack toward rear of tractor. Remove belt upwards from transaxle pulley by deflecting belt keepers.
- Pull belt toward front of tractor and remove downwards from around engine pulley.
- Install new belt by reversing above procedure.

IMPORTANT: MAKE SURE UPPER BELT KEEPER IS POSITIONED PROPERLY BETWEEN LOCATOR TABS.

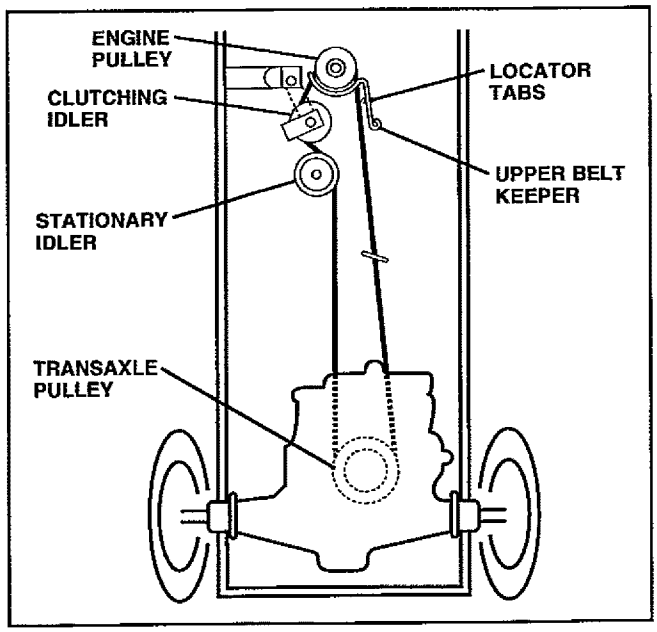

FIG. 34

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SERVICE AND ADJUSTMENTS

TRANSAXLE SHIFTER LINKAGE AND ADJUSTMENT (See Figs. 35 and 36)

The transaxle should be in neutral when the gearshift lever is in the neutral (lock gate) position. The adjustment is preset at the factory; however, if adjustment is needed, proceed as follows:

- Make sure transaxle is in neutral.
- Loosen two locknuts on tie rod.
- Turn center rod until gearshift lever falls into neutral lock gate on fender console.
- Tighten locknuts securely.

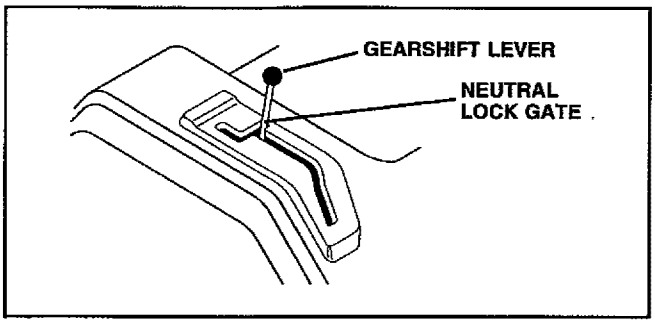

FIG. 35

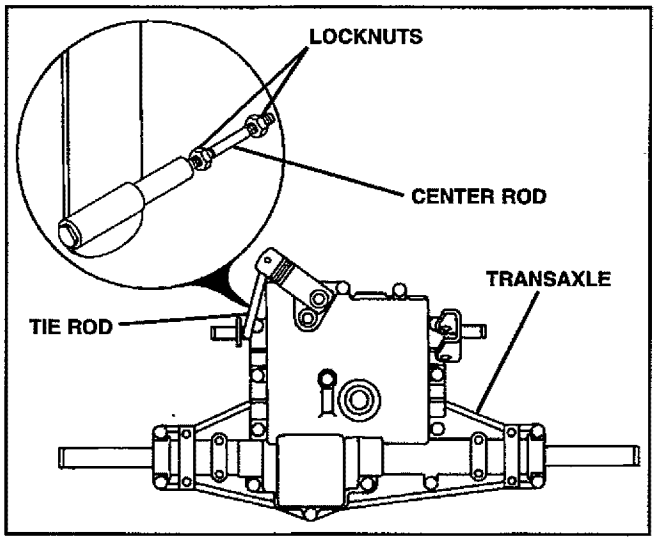

FIG. 36

TO ADJUST STEERING WHEEL ALIGNMENT

If steering wheel crossbars are not horizontal (left to right) when wheels are positioned straight forward, remove steering wheel and reassemble per instructions in the Assembly section of this manual.

FRONT WHEEL TOE-IN/CAMBER

The front wheel toe-in and camber are not adjustable on your tractor. If damage has occurred to affect the front wheel toe-in or camber, contact your nearest authorized service center.

TO REMOVE WHEEL FOR REPAIRS (See Fig. 37)

- Block up axle securely.
- Remove axle cover, retaining ring and washers to allow wheel removal (rear wheel contains a square key - Do not lose).
- Repair tire and reassemble.
- On rear wheels only: align grooves in rear wheel hub and axle. Insert square key.
- Replace washers and snap retaining ring securely in axle groove.
- Replace axle cover.

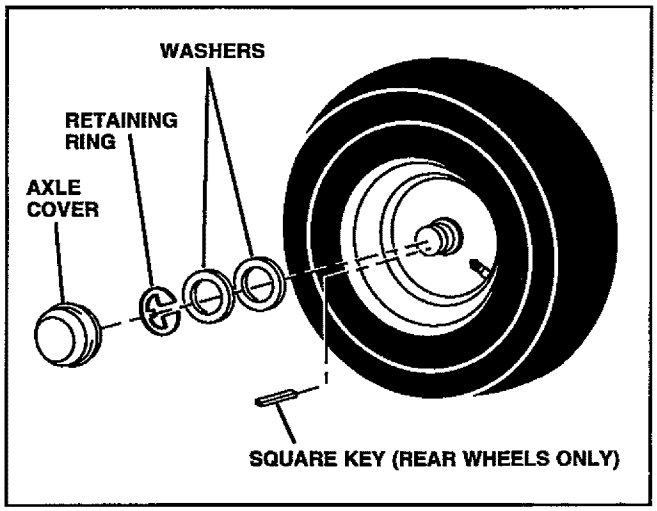

FIG. 37

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SERVICE AND ADJUSTMENTS

TO START ENGINE WITH A WEAK BATTERY (See Figs. 41 and 42)

CAUTION: Lead-acid batteries generate explosive gases. Keep sparks, flame and smoking materials away from batteries. Always wear eye protection when around batteries.

If your battery is too weak to start the engine, it should be recharged. If "jumper cables" are used for emergency starting, follow this procedure:

IMPORTANT: YOUR UNIT IS EQUIPPED WITH A 12 VOLT NEGATIVE GROUNDED SYSTEM. THE OTHER VEHICLE MUST ALSO BE A 12 VOLT NEGATIVE GROUNDED SYSTEM. DO NOT USE YOUR TRACTOR BATTERY TO START OTHER VEHICLES.

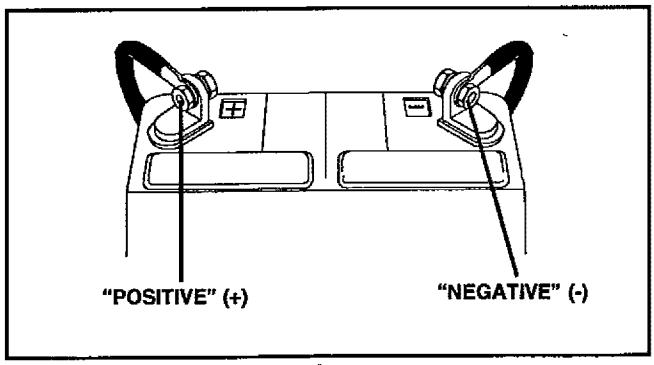

FIG. 41

TO ATTACH JUMPER CABLES -

- Connect each end of the RED cable to the POSITIVE (+) terminal of each battery, taking care not to short against chassis.
- Connect one end of the BLACK cable to the NEGATIVE (-) terminal of fully charged battery.
- Connect the other end of the BLACK cable to good CHASSIS GROUND, away from fuel tank and battery.

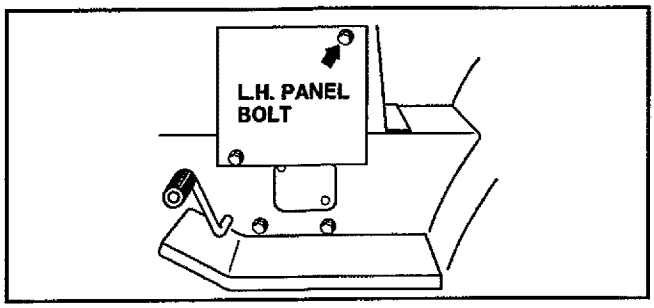

FIG. 42

TO REMOVE CABLES, REVERSE ORDER -

- BLACK cable first from chassis and fully charged battery.
- RED cable last from both batteries.

TO REPLACE HEADLIGHT BULB

- Raise hood.
- Pull bulb holder out of the hole in the backside of the grill.
- Replace bulb in holder and push bulb holder securely back into the hole in the backside of the grill.
- Close hood.

INTERLOCKS AND RELAYS

Loose or damaged wiring may cause your tractor to run poorly, stop running, or prevent it from starting.

- Check wiring. See electrical wiring diagram in Repair Parts section of this manual.

TO REMOVE HOOD AND GRILL (See Fig. 43)

- Raise hood.
- Unsnap headlight wire connector.
- Stand in front of tractor. Grasp hood at sides, tilt forward and lift off of tractor.
- To reinstall, slide hood pivot brackets into slots in frame.
- Reconnect headlight wire connector and close hood.

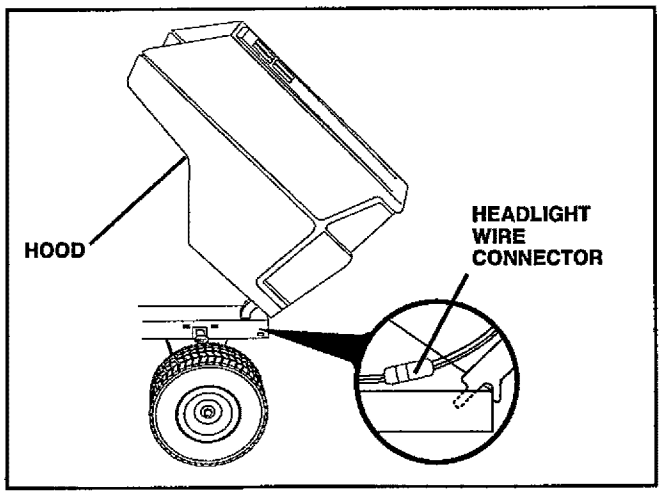

FIG. 43

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SERVICE AND ADJUSTMENTS

ENGINE

TO ADJUST THROTTLE CONTROL CABLE (See Fig. 41)

The throttle control has been preset at the factory and adjustment should not be necessary. Check adjustment as described below before loosening cable. If adjustment is necessary, proceed as follows:

- With engine not running, move throttle control lever to "FAST" position.
- Check that speed control lever is against stop screw. If it is not, loosen clamp screw and pull throttle cable until lever is against screw. Tighten clamp screw securely.

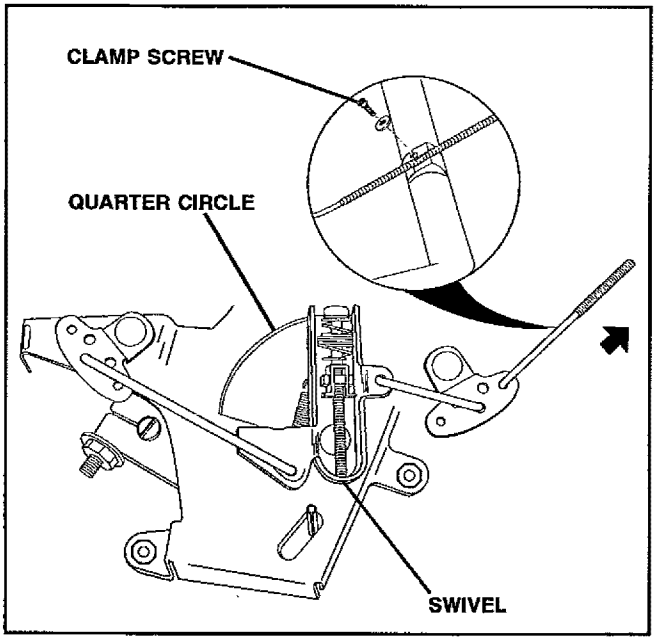

FIG. 41

TO ADJUST CHOKE CONTROL (See Fig. 42)

The choke control has been preset at the factory and adjustment should not be necessary. Check adjustment as described below before loosening cable. If adjustment is necessary, proceed as follows:

- With engine not running, move choke control (located on dash panel) to full "CHOKE" position.
- Remove air cleaner cover, filter and spitback plate to expose carburetor choke (See "AIR FILTER" in the Customer Responsibilities section of this manual).
- Choke should be closed. If it is not, loosen casing clamp screw and move choke until choke is completely closed. Tighten casing clamp screw securely.
- Reassemble air cleaner.

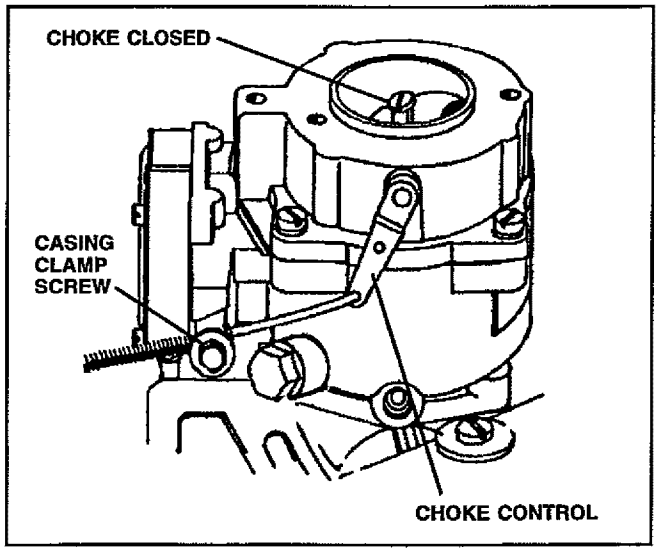

FIG. 42

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SERVICE AND ADJUSTMENTS

TO ADJUST CARBURETOR (See Figs. 43 and 44)

The carburetor has been present at the factory and adjustment should not be necessary. However, minor adjustment may be required to compensate for differences in fuel, temperature, altitude or load. If the carburetor does not need adjustment, proceed as follows:

In general, turning the mixture screw **in** (clockwise) decreases the supply of fuel to the engine giving a leaner fuel/air mixture. Turning the mixture screw **out** (counterclockwise) increases the supply of fuel to the engine giving a richer fuel/air mixture.

IMPORTANT: DAMAGE TO THE NEEDLES AND THE SEATS IN CARBURETOR MAY RESULT IF SCREW IS TURNED IN TOO TIGHT.

PRELIMINARY SETTING -

- Be sure you have a clean air filter, and the throttle control cable and choke are adjusted properly (see above).
- With engine off turn idle mixture screw **in** (clockwise) closing it finger tight and then turn **out** (counterclockwise) 1-1/4 to 1-1/2 turns.

FINAL SETTING -

- Start engine and allow to warm for five minutes. Make final adjustments with engine running and shift/motion control lever in "NEUTRAL" position.
- With throttle control lever in "SLOW" position, hold throttle lever against idle speed screw and adjust idle speed screw to obtain 1200 to 1400 RPM.
- While still holding throttle lever against idle speed screw, turn idle mixture screw **in** (clockwise) until engine begins to die and then turn **out** (counterclockwise) until engine runs rough. Turn screw to a point midway between those two positions.
- Continue to hold throttle lever against idle speed screw and adjust idle speed screw to obtain 900 to 1200 RPM. Release throttle lever.

ACCELERATION TEST -

- Move throttle control lever from "SLOW" to "FAST" position. If engine hesitates or dies, turn idle mixture screw **out** (counterclockwise) 1/8 turn. Repeat test and continue to adjust, if necessary, until engine accelerates smoothly.

High speed stop is factory adjusted. Do not adjust-damage may result.

IMPORTANT: NEVER TAMPER WITH THE ENGINE GOVERNOR, WHICH IS FACTORY SET FOR PROPER ENGINE SPEED. OVERSPEEDING THE ENGINE ABOVE THE FACTORY HIGH SPEED SETTING CAN BE DANGEROUS. IF YOU THINK THE ENGINE-GOVERNED HIGH SPEED NEEDS ADJUSTING, CONTACT YOUR NEAREST SEARS SERVICE CENTER, WHICH HAS PROPER EQUIPMENT AND EXPERIENCE TO MAKE ANY NECESSARY ADJUSTMENTS.

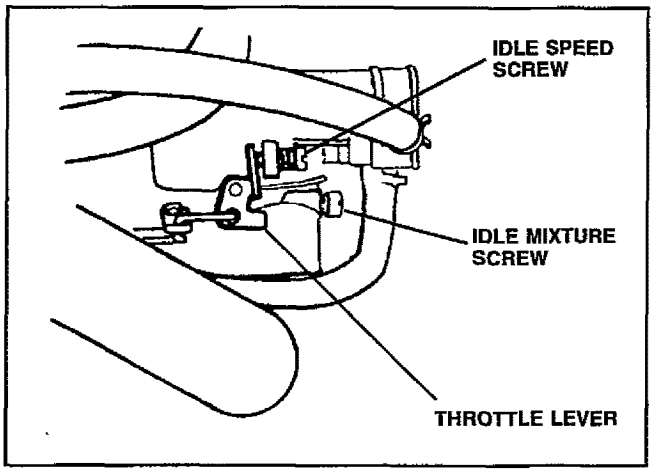

FIG. 43

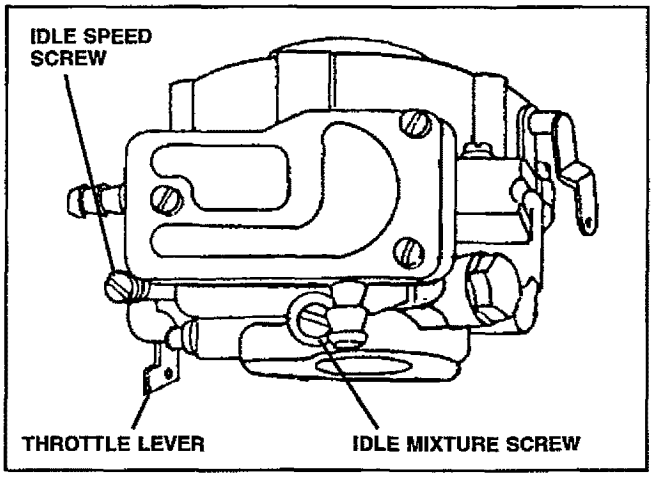

FIG. 44

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STORAGE

Immediately prepare your tractor for storage at the end of the season or if the tractor will not be used for 30 days or more.

CAUTION: Never store the tractor with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.

TRACTOR

Remove mower from tractor for winter storage. When mower is to be stored for a period of time, clean it thoroughly, remove all dirt, grease, leaves, etc. Store in a clean, dry area.

- Clean entire tractor (See "CLEANING" in the Customer Responsibilities section of this manual).
- Inspect and replace belts, if necessary (See belt replacement instructions in the Service and Adjustments section of this manual).
- Lubricate as shown in the Customer Responsibilities section of this manual.
- Be sure that all nuts, bolts and screws are securely fastened. Inspect moving parts for damage, breakage and wear. Replace if necessary.
- Touch up all rusted or chipped paint surfaces; sand lightly before painting.

BATTERY

- Fully charge the battery for storage.
- After a period of time in storage, battery may require recharging.
- To help prevent corrosion and power leakage during long periods of storage, battery cables should be disconnected and battery cleaned thoroughly (see "TO CLEAN BATTERY AND TERMINALS" in the Customer Responsibilities section of this manual).
- After cleaning, leave cables disconnected and place cables where they cannot come in contact with battery terminals.
- Be sure battery drain tube is securely attached.
- If battery is removed from tractor for storage, do not store battery directly on concrete or damp surfaces.

ENGINE

FUEL SYSTEM

IMPORTANT: IT IS IMPORTANT TO PREVENT GUM DEPOSITS FROM FORMING IN ESSENTIAL FUEL SYSTEM PARTS SUCH AS CARBURETOR, FUEL FILTER, FUEL HOSE, OR TANK DURING STORAGE. ALSO, EXPERIENCE INDICATES THAT ALCOHOL BLENDED FUELS (CALLED GASOHOL OR USING ETHANOL OR METHANOL) CAN ATTRACT MOISTURE WHICH LEADS TO SEPARATION AND FORMATION OF ACIDS DURING STORAGE. ACIDIC GAS CAN DAMAGE THE FUEL SYSTEM OF AN ENGINE WHILE IN STORAGE.

- Drain the fuel tank.
- Start the engine and let it run until the fuel lines and carburetor are empty.
- Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.
- Use fresh fuel next season.

NOTE: Fuel stabilizer is an acceptable alternative in minimizing the formation of fuel gum deposits during storage. Add stabilizer to gasoline in fuel tank or storage container. Always follow the mix ratio found on stabilizer container. Run engine at least 10 minutes after adding stabilizer to allow the stabilizer to reach the carburetor. Do not drain the gas tank and carburetor if using fuel stabilizer.

ENGINE OIL

Drain oil (with engine warm) and replace with clean engine oil. (See "ENGINE" in the Customer Responsibilities section of this manual).

CYLINDERS

- Remove spark plug(s).
- Pour one ounce of oil through spark plug hole(s) into cylinder(s).
- Turn ignition key to "START" position for a few seconds to distribute oil.
- Replace with new spark plug(s).

OTHER

- Do not store gasoline from one season to another.
- Replace your gasoline can if your can starts to rust. Rust and/or dirt in your gasoline will cause problems.
- If possible, store your tractor indoors and cover it to give protection from dust and dirt.
- Cover your tractor with a suitable protective cover that does not retain moisture. Do not use plastic. Plastic cannot breathe which allows condensation to form and will cause your tractor to rust.

IMPORTANT: NEVER COVER TRACTOR WHILE ENGINE AND EXHAUST AREAS ARE STILL WARM.

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TROUBLESHOOTING POINTS

PROBLEM	CAUSE	CORRECTION
Will not start	1. Out of fuel. 2. Engine not "CHOKED" properly. 3. Engine flooded. 4. Bad spark plug. 5. Dirty air filter. 6. Dirty fuel filter. 7. Water in fuel. 8. Loose or damaged wiring. 9. Carburetor out of adjustment. 10. Engine valves out of adjustment.	1. Fill fuel tank. 2. See "TO START ENGINE" in Operation section. 3. Wait several minutes before attempting to start. 4. Replace spark plug. 5. Clean/replace air filter. 6. Replace fuel filter. 7. Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter. 8. Check all wiring. 9. Contact an authorized service center/department. 10. Contact an authorized service center/department.
Hard to start	1. Dirty air filter. 2. Bad spark plug. 3. Weak or dead battery. 4. Dirty fuel filter. 5. Stale or dirty fuel. 6. Loose or damaged wiring. 7. Carburetor out of adjustment. 8. Engine valves out of adjustment.	1. Clean/replace air filter. 2. Replace spark plug. 3. Recharge or replace battery. 4. Replace fuel filter. 5. Drain fuel tank and refill with fresh gasoline. 6. Check all wiring. 7. Contact an authorized service center/department. 8. Contact an authorized service center/department.
Engine will not turn over	1. Clutch/brake pedal not depressed. 2. Attachment clutch is engaged. 3. Weak or dead battery. 4. Blown fuse. 5. Corroded battery terminals. 6. Loose or damaged wiring. 7. Faulty ignition switch. 8. Faulty solenoid or starter. 9. Faulty operator presence switch(es).	1. Depress clutch/brake pedal. 2. Disengage attachment clutch. 3. Recharge or replace battery. 4. Replace fuse. 5. Clean battery terminals. 6. Check all wiring. 7. Check/replace ignition switch. 8. Check/replace solenoid or starter. 9. Contact an authorized service center/department.
Engine clicks but will not start	1. Weak or dead battery. 2. Corroded battery terminals. 3. Loose or damaged wiring. 4. Faulty solenoid or starter.	1. Recharge or replace battery. 2. Clean battery terminals. 3. Check all wiring. 4. Check/replace solenoid or starter.
Loss of power	1. Cutting too much grass/too fast. 2. Throttle in "CHOKE" position. 3. Build-up of grass, leaves and trash under mower. 4. Dirty air filter. 5. Low oil level/dirty oil. 6. Faulty spark plug. 7. Dirty fuel filter. 8. Stale or dirty fuel. 9. Water in fuel. 10. Spark plug wire loose. 11. Dirty engine air screen/fins. 12. Dirty/clogged muffler. 13. Loose or damaged wiring. 14. Carburetor out of adjustment. 15. Engine valves out of adjustment.	1. Set in "Higher Cut" position/reduce speed. 2. Adjust throttle control. 3. Clean underside of mower housing. 4. Clean/replace air filter. 5. Check oil level/change oil. 6. Clean and regap or change spark plug. 7. Replace fuel filter. 8. Drain fuel tank and refill with fresh gasoline. 9. Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter. 10. Connect and tighten spark plug wire. 11. Clean engine air screen/fins. 12. Clean/replace muffler. 13. Check all wiring. 14. Contact an authorized service center/department. 15. Contact an authorized service center/department.
Excessive vibration	1. Worn, bent or loose blade. 2. Bent blade mandrel. 3. Loose/damaged part(s).	1. Replace blade. Tighten blade bolt. 2. Replace blade mandrel. 3. Tighten loose part(s). Replace damaged parts.

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TROUBLESHOOTING POINTS

PROBLEM	CAUSE	CORRECTION
Engine continues to run when operator leaves seat with attachment clutch engaged	1. Faulty operator-safety presence control system.	1. Check wiring, switches and connections. If not corrected, contact an authorized service center/ department.
Poor cut - uneven	1. Worn, bent or loose blade. 2. Mower deck not level. 3. Buildup of grass, leaves, and trash under mower. 4. Bent blade mandrel.	1. Replace blade. Tighten blade bolt. 2. Level mower deck. 3. Clean underside of mower housing. 4. Replace blade mandrel.
Mower blades will not rotate	1. Obstruction in clutch mechanism. 2. Mower drive belt out of adjustment. 3. Worn/damaged mower drive belt. 4. Frozen idler pulley. 5. Frozen blade mandrel.	1. Remove obstruction. 2. Adjust mower drive belt. 3. Replace mower drive belt. 4. Replace idler pulley. 5. Replace blade mandrel.
Poor grass discharge	1. Engine speed too slow. 2. Travel speed too fast. 3. Wet grass. 4. Mower deck not level. 5. Low/uneven tire air pressure. 6. Worn, bent or loose blade. 7. Buildup of grass, leaves and trash under mower. 8. Mower drive belt worn or out of adjustment. 9. Blades improperly installed. 10. Improper blades used.	1. Place throttle control in "FAST" position. 2. Shift to slower speed. 3. Allow grass to dry before mowing. 4. Level mower deck. 5. Check tires for proper air pressure. 6. Replace/sharpen blade. Tighten blade bolt. 7. Clean underside of mower housing. 8. Replace/adjust mower drive belt. 9. Reinstall blades sharp edge down. 10. Replace with blades listed in this manual.
Headlight(s) not working (if so equipped)	1. Switch is "OFF". 2. Bulb(s) burned out. 3. Faulty light switch. 4. Loose or damaged wiring. 5. Blown fuse.	1. Turn switch "ON". 2. Replace bulb(s). 3. Check/replace light switch. 4. Check wiring and connections. 5. Replace fuse.
Battery will not charge	1. Bad battery cell(s). 2. Poor cable connections. 3. Faulty regulator (if so equipped). 4. Faulty alternator.	1. Replace battery. 2. Check/clean all connections. 3. Replace regulator. 4. Replace alternator.
Engine "backfires" when turning engine "OFF"	1. Engine throttle control not set at "SLOW" position for 30 seconds before stopping engine.	1. Move throttle control to "SLOW" position and allow to idle for 30 seconds before stopping engine.

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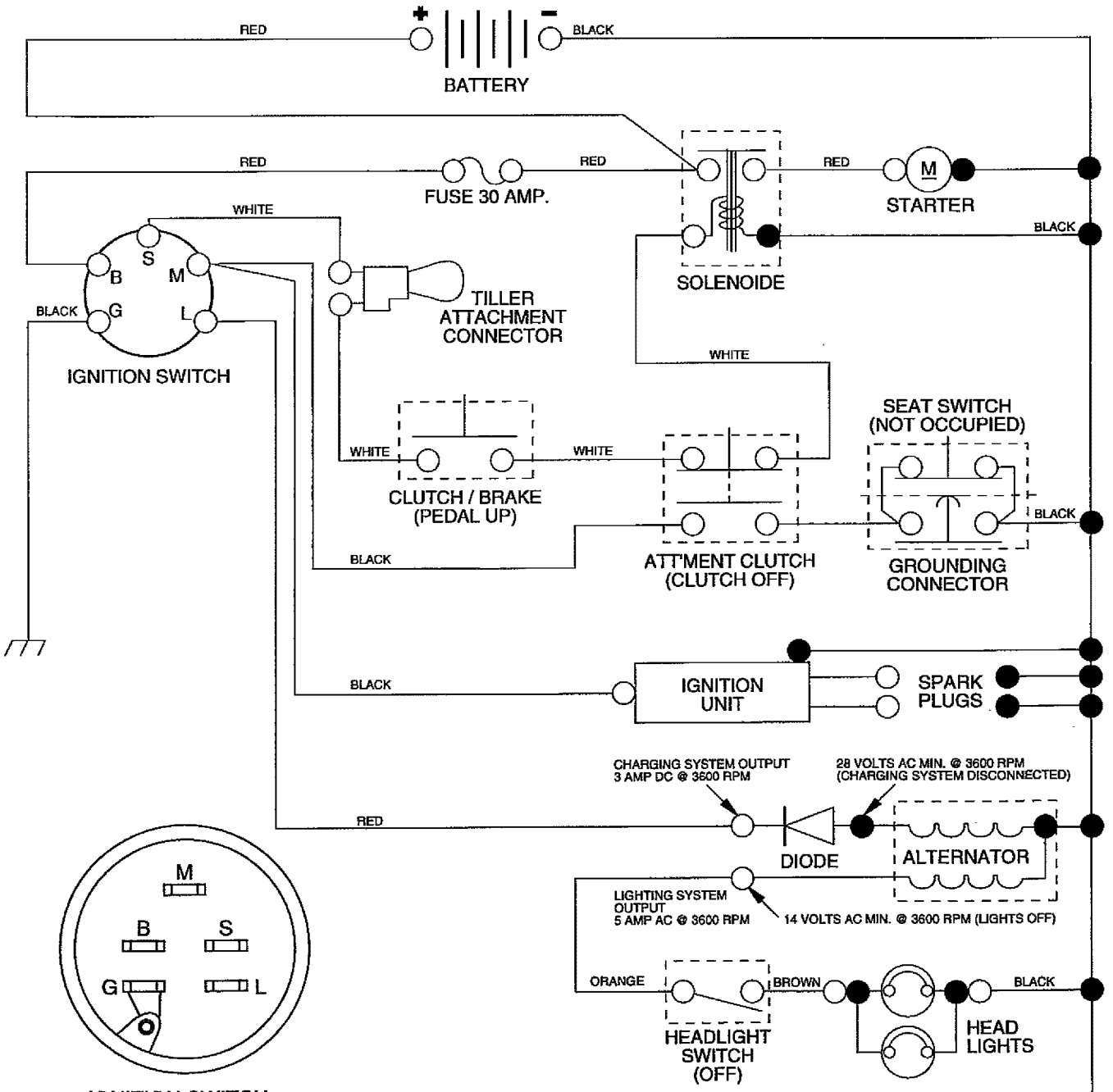
18 HP 44 " TRACTOR - - MODEL NUMBER 917.255890

SCHEMATIC



IGNITION SWITCH

POSITION	CIRCUIT
OFF	M + G
ON	B + L
START	B + S

NON-REMOVABLE CONNECTIONS

REMOVABLE CONNECTIONS

WIRING INSULATED CLIPS

NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING

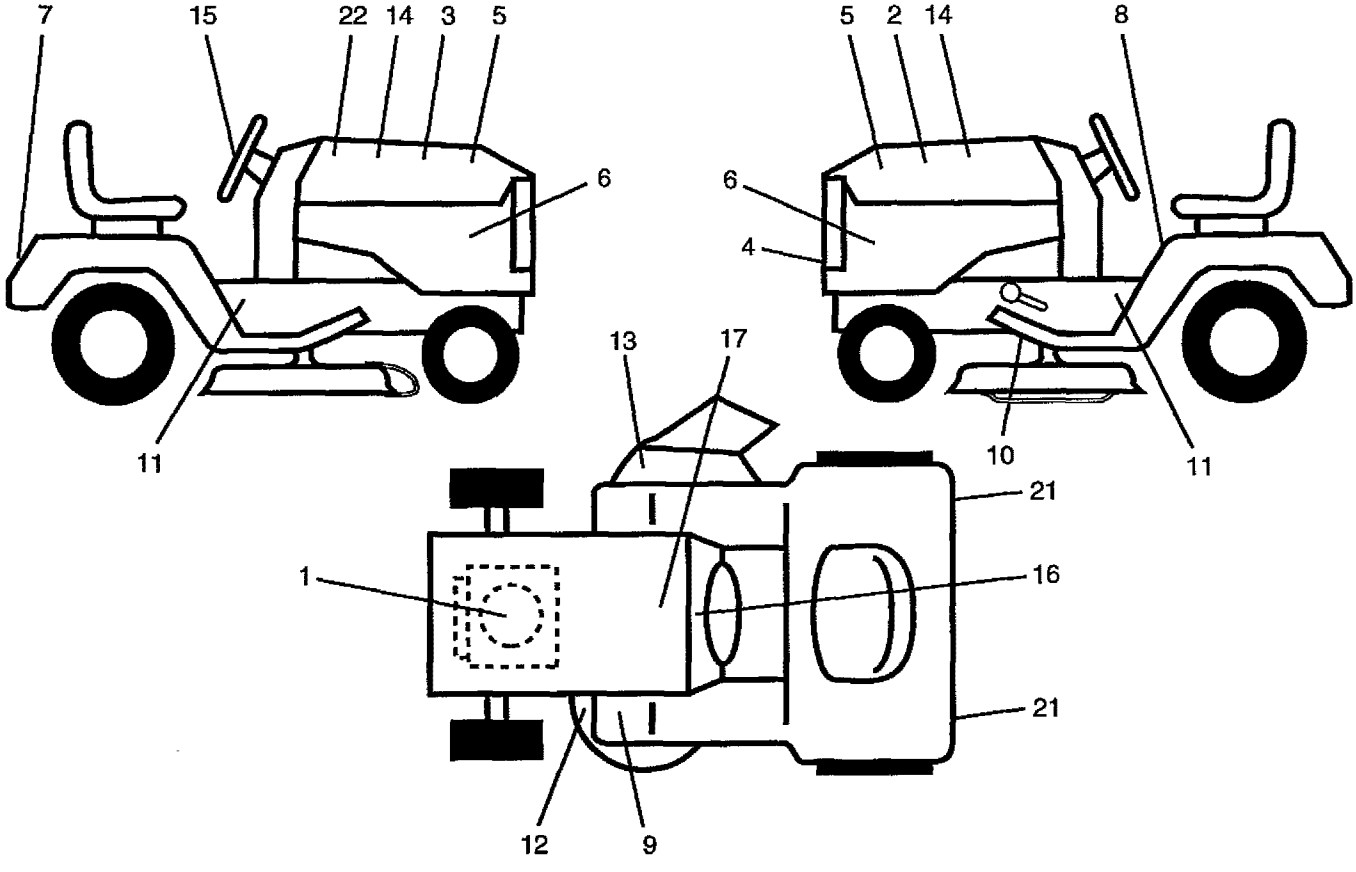
NOTE

YOUR TRACTOR IS EQUIPPED WITH A SPECIAL ALTERNATOR SYSTEM. THE LIGHTS ARE NOT CONNECTED TO THE BATTERY, BUT HAVE THEIR OWN ELECTRICAL SOURCE. BECAUSE OF THIS, THE BRIGHTNESS OF THE LIGHTS WILL CHANGE WITH ENGINE SPEED. AT IDLE THE LIGHTS WILL DIM. AS THE ENGINE IS SPEEDED UP, THE LIGHTS WILL BECOME THEIR BRIGHTEST.

REPAIR PARTS

18 HP 44" TRACTOR - - MODEL NUMBER 917.255890

DECALS



KEY NO.	PART NO.	DESCRIPTION
1	136127	Decal, Engine, HP
2	138280	Decal, Hood, Stripe, L.H.
3	138279	Decal, Hood, Stripe, R.H.
4	138264	Decal, Grill
5	138261	Decal, Side Panel, L.H.
6	108631X	Decal, II
7	125880X	Decal, Fender
8	137537	Decal, Caution
9	4900J	Decal, Clutch/Brake
10	109199X	Decal, V-Belt Drive
11	105567X	Decal, Chassis, Speed/Deck Size
12	136834	Decal, Mower Drive Belt
14	138049	Decal, Side Panel, Diehard
15	132267	Decal, Steering Wheel Insert
16	136794	Decal, Operating Instructions, Dash
17	138047	Decal, Battery, Diehard
21	106202X	Taillight Reflector
22	133644	Decal, Customer Maintanence
--	137758	Owner's Manual, English
--	137759	Owner's Manual, Spanish
--	101539X	Sheet, Slope

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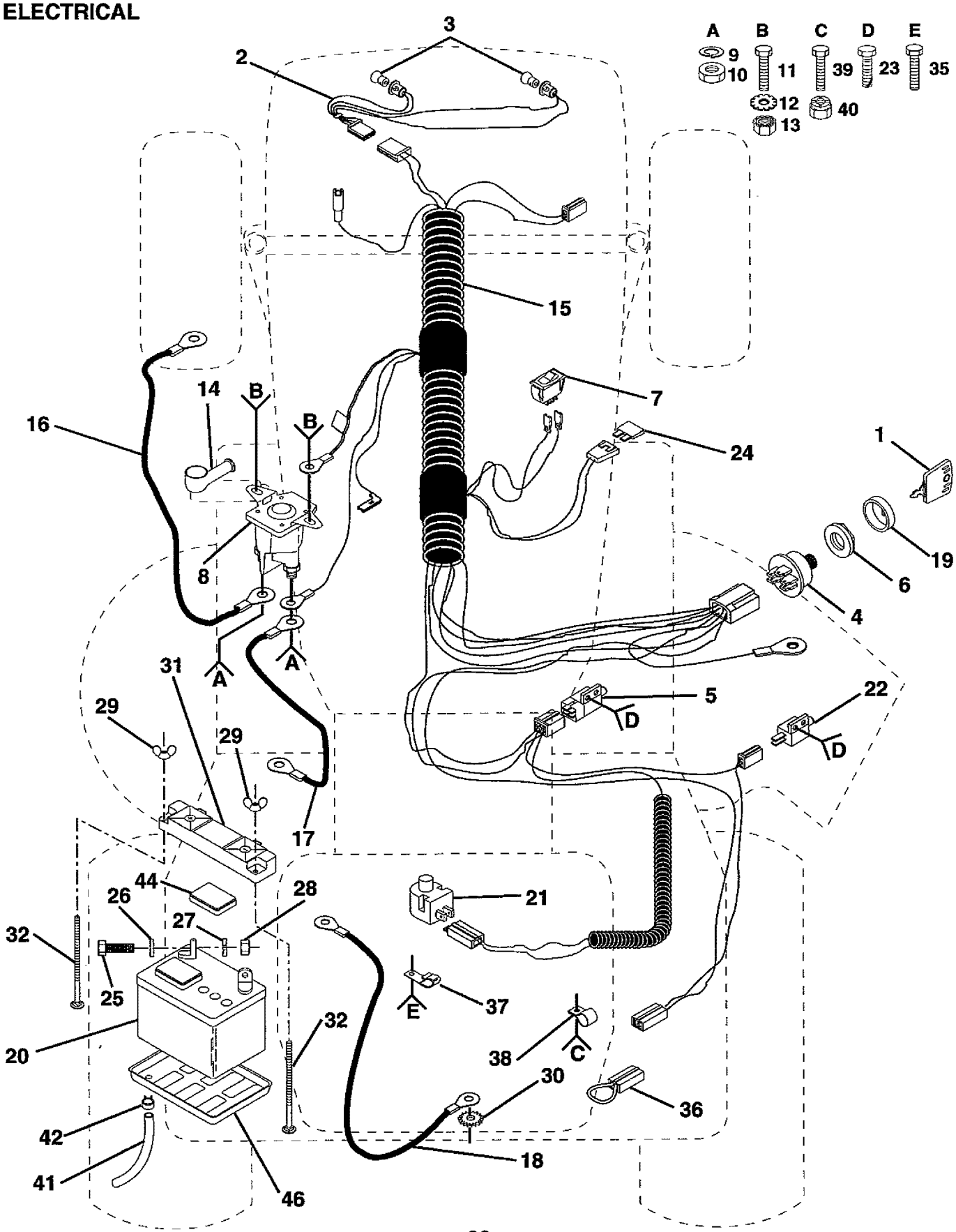
REPAIR PARTS

18 HP 44" TRACTOR - - MODEL NUMBER 917.255890

ELECTRICAL



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REPAIR PARTS

18 HP 44" TRACTOR - - MODEL NUMBER 917.255890

ELECTRICAL

KEY NO.	PART NO.	DESCRIPTION
1	109310X	Key, Ignition
2	136850	Harness, Light Socket (Includes Key Number 3)
3	4152J	Bulb, Light
4	4406R	Switch, Ignition
5	109553X	Switch, Interlock, Attachment Clutch
6	124211X	Nut, Ignition
7	110712X	Switch, Light
8	109081X	Solenoid
9	10090400	Washer, Lock 1/4
10	73350400	Nut, Hex, Jam 1/4-20
11	74780408	Bolt, Hex Head, Fin. 1/4-20 UNC x 1/2
12	11050400	Washer, Lock, External Tooth 1/4
13	73510400	Nut, Hex, Keps 1/4-20
14	131563	Cover, Terminal
15	138318	Harness, Ignition
16	4799J	Cable, Battery
17	4206J	Cable, Battery
18	4207J	Cable, Ground
19	123620X	Cover, Key Switch
20	121537X	Battery
21	121305X	Switch, Seat
22	104445X	Switch, Interlock, Clutch
23	17021008	Screw, Hex Head, Self-Tapping #10-24 x 1/2
24	108824X	Fuse
25	74760412	Bolt, Hex Head 1/4-20 x 3/4
26	STD551025	Washer 9/32 x 5/8 x 16 Gauge
27	STD551125	Washer, Lock 1/4
28	STD541025	Nut, Hex 1/4-20
29	123198X	Nut, Wing 1/4-20
30	11050600	Washer, Lock, External Tooth 3/4
31	102476X	Guard, Terminal
32	72240460	Bolt, Carriage 1/4-20 x 7-1/2
35	74760612	Bolt, Hex Head, Fin. 3/8-16 UNC x 3/4
36	102501X	Wire Loop
37	2751R	Clip, Fuel Line
38	235R	Clip, Insulation
39	74780408	Bolt, Hex Head 1/4-20 x 1/2
40	73680400	Nut, Crownlock 1/4-20
41	7697J	Clamp, Hose
44	121264X	Cap, Battery
46	7603J	Tray, Battery
- -	7192J	Wire Tie

NOTE: All component dimensions given in U. S. inches
1 inch = 25.4 mm

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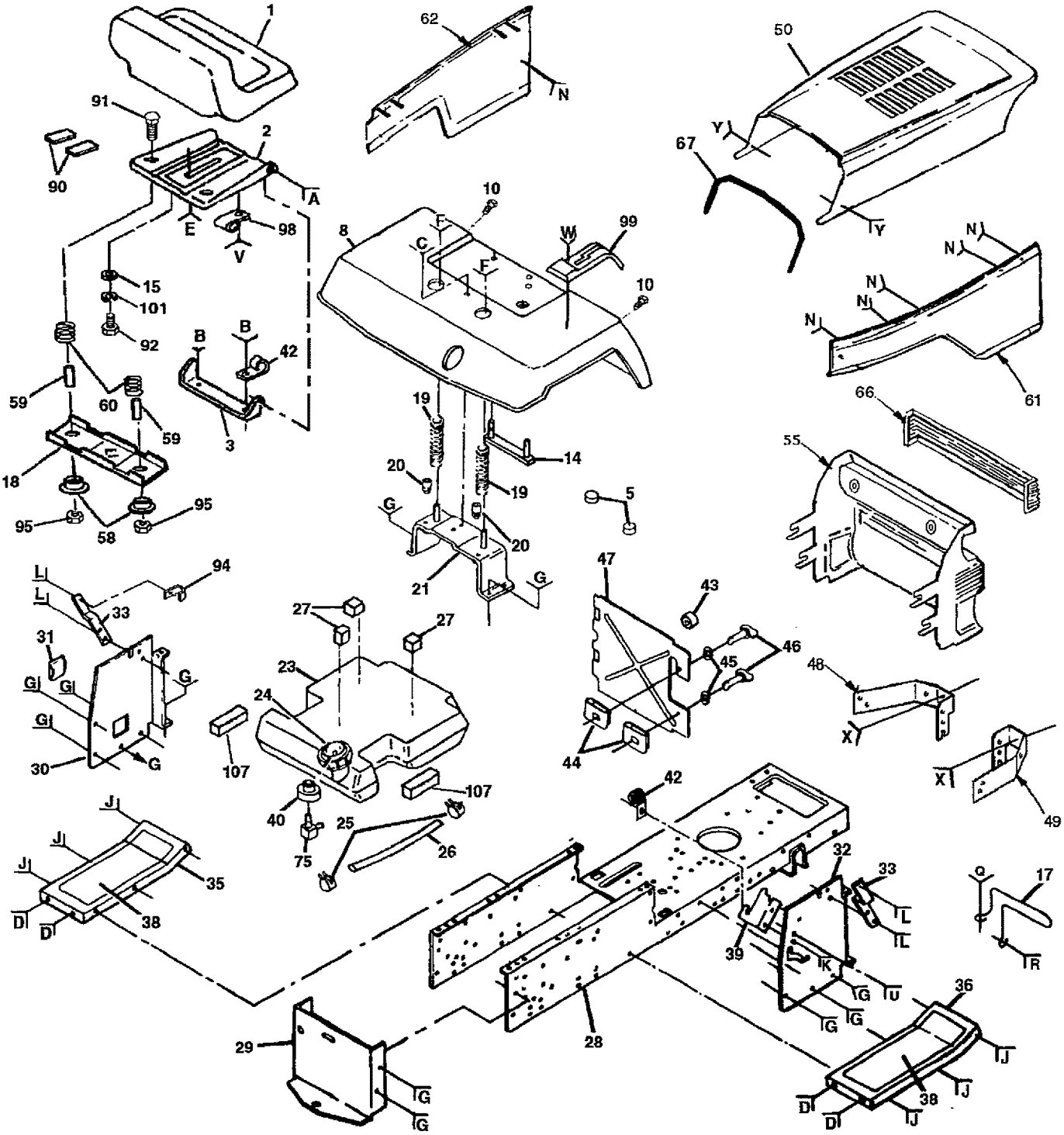
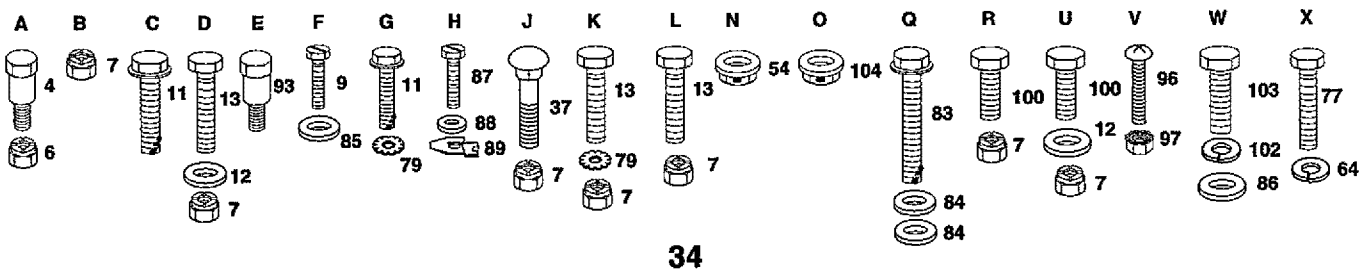
REPAIR PARTS

18 HP 44" TRACTOR - - MODEL NUMBER 917.255890

CHASSIS AND ENCLOSURES





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REPAIR PARTS

18 HP 44" TRACTOR - - MODEL NUMBER 917.255890

CHASSIS AND ENCLOSURES

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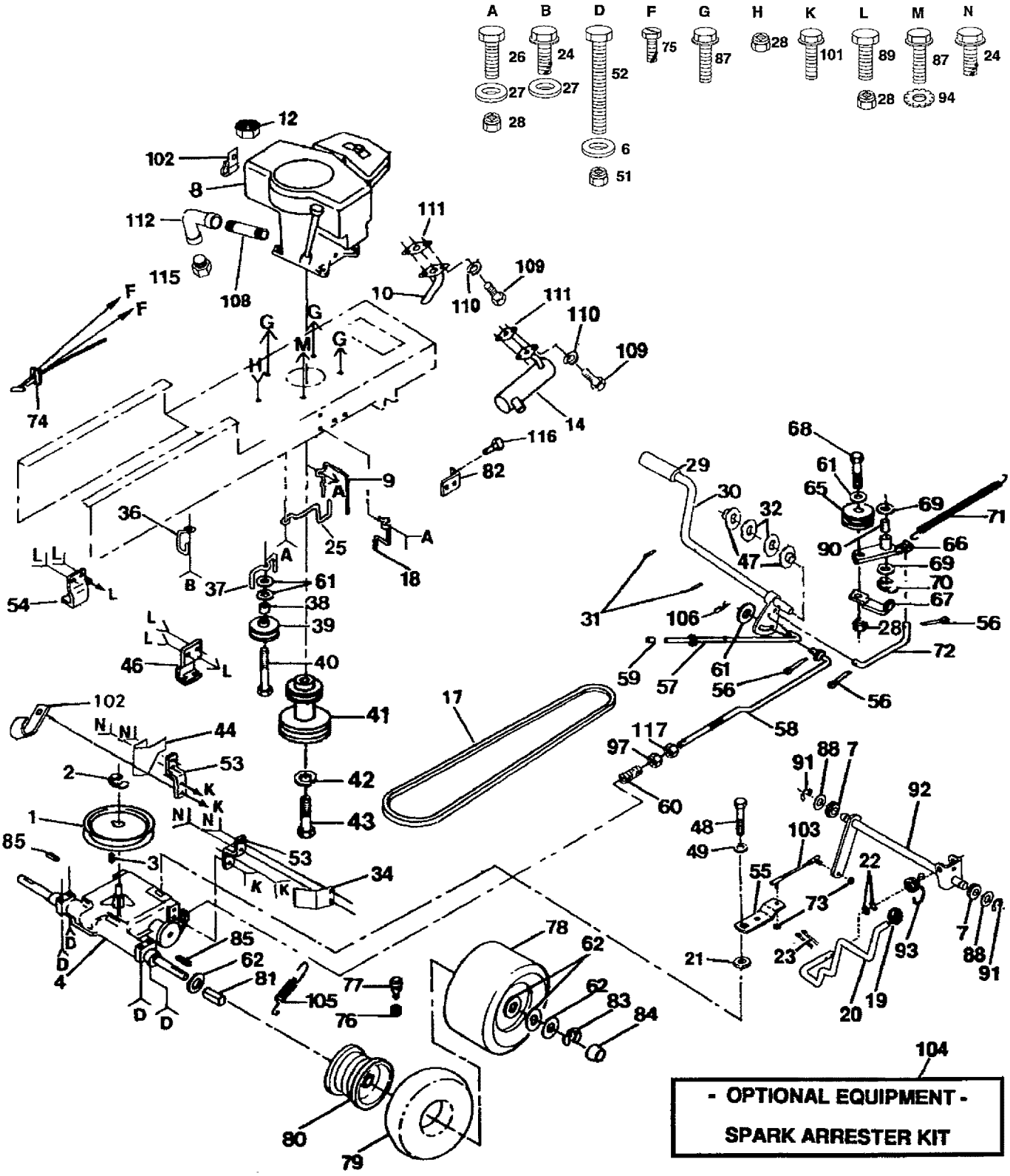
KEY NO.	PART NO.	DESCRIPTION
1	127437	Seat
2	131451	Pan, Seat
3	126656X	Bracket, Pivot, Seat
4	105529X	Bolt, Shoulder 5/16-18
5	124238X	Cap, Spring
6	STD541431	Nut, Crownlock 5/16-18
7	STD541437	Nut, Crownlock 3/8-16
8	123784X417	Fender
9	17490508	Screw
10	17490608	Screw, Hex Washer Head, Thd., Roll. 3/8-16 x 1/2
11	17490612	Screw, Hex Washer Head, Thd., Roll. 3/8-16 x 3/4
12	19131312	Washer 13/32 x 13/16 x 12 Gauge
13	STD523707	Bolt, Hex Head 3/8-16 x 3/4
14	105511X	Strap, Fender
15	19171912	Washer 17/32 x 1-3/16 x 12 Gauge
17	135029	Guard, Muffler
18	121246X	Bracket, Seat Switch
19	124181X	Compression, Spring
20	105531X	Nut, Push
21	137113	Bracket, Fender
23	127334X	Tank, Fuel
24	123549X	Cap, Fuel
25	123487X	Clamp, Hose
26	5277J	Line, Fuel
27	106082X	Pad, Spacer
28	127166X	Chassis Assembly
29	123785X	Drawbar
30	138644	Panel, Dash, L.H.
31	121794X	Cover, Access
32	138643	Panel, Dash, R. H.
33	138193	Bracket, Support, Dash
35	105465X417	Footrest, L.H.
36	105464X417	Footrest, R.H.
37	STD533707	Bolt, Carriage 3/8-16 x 3/4
38	105466X	Pad, Footrest
39	110923X	Bracket, Clutch, Mower
40	3645J	Bushing
42	2751R	Clip, Insulated
43	110436X	Grommet, Split
44	105839X	Receptacle, 1/4 Turn
45	105838X	Retainer, 1/4 Turn
46	123650X	Stud, 1/4 Turn
47	105867X	Shield, Heat
48	136814	Hinge Bracket, Front, L.H.
49	136813	Hinge Bracket, Front, R.H.
50	136673X417	Hood
54	108067X	Nut, Pal
55	137694	Grill
58	121248X	Bushing, Snap
59	134300	Spacer, Split
60	121250X	Spring, Compression
61	136670X417	Panel, Side, R.H.
62	136671X417	Panel, Side, L.H.
64	10040400	Washer, Lock
66	136374	Lens, Clear, Bar
67	137304	Rod, Support, Hood
75	139277	Stem, Fuel Tank
77	74760408	Bolt, Hex Head, Fin. 1/4-20 UNC x 1/2
79	11050600	Washer, Lock, External Tooth 3/8
83	17490616	Bolt, Hex Washer Head, Thd., Roll. 3/8-16 x 1
84	19131616	Washer 13/32 x 1 x 16 Gauge
85	19131614	Washer 13/32 x 1 x 14 Gauge
86	19060718	Washer 3/16 x 7/16 x 18 Gauge
87	106909X	Screw, Special
88	106910X	Washer
89	108402X	U-Clip
90	121251X	Strip, Foam
91	72170410	Bolt, Carriage 1/4-20 x 1-1/4
92	74780814	Bolt, Hex Head, Fin. 1/2-13 x 7/8 Grade 5
93	127018X	Bolt, Shoulder 5/16-18 x .62
94	5320R	Clip, Insulated
95	123976X	Nut, Hex, Large, Flange
96	STD511005	Screw, Slotted Pan Head #10-24 x 1/4
97	73951000	Nut, Hex, Keps #10-24
98	4171R	Clip, Insulated
99	123825X	Console, Shifter
100	STD533710	Bolt, Carriage 3/8-16 UNC x 1
101	STD551150	Washer, Lock 1/4
102	10100800	Washer, Lock
103	74640806	Screw #8 x 3/8
104	120579X	Nut, Pal
107	109227X	Pad, Spacer

NOTE: All component dimensions given in U.S. inches. 1 inch = 25.4 mm

REPAIR PARTS

18 HP 44" TRACTOR - - MODEL NUMBER 917.255890

DRIVE



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REPAIR PARTS

18 HP 44" TRACTOR - - MODEL NUMBER 917.255890

DRIVE

KEY NO.	PART NO.	DESCRIPTION
1	121327X	Pulley, Transaxle
2	12000004	Ring, Retainer
3	2228M	Key, Woodruff #9
4	123797X	Transaxle, Peerless, 6 Speed, Model Number 143.820-016
6	19111214	Washer 11/32 x 3/4 x 14 Gauge
7	71208	Bushing, Steering Rod
8	137620	Engine, Briggs & Stratton, 18 HP, Model #422707, Type #1254-01
9	121440X	Guide, Belt, Lower, Engine
10	100229L	Tube Assembly, Exhaust
12	STD541437	Nut, Hex, Keps 3/8-16
14	108373X	Muffler
17	123796X	V-Belt, Drive
18	121441X	Guide, Belt, Lower, Engine
19	106933X	Knob
20	123781X	Rod, Shifter
21	105701X	Washer, Shift Plate
22	19171216	Washer 17/32 x 3/4 x 16 Gauge
23	STD561210	Pin, Cotter 1/8 x 1
24	17490612	Screw, Hex Washer Head, Thd., Roll. 3/8-16 x 3/4
25	129921	Keeper, Belt, Engine, L.H.
26	STD523710	Bolt, Hex 3/8-16 x 1
27	19131312	Washer 13/32 x 13/16 x 12 Gauge
28	73680600	Nut, Crownlock 3/8-16
29	8883R	Cover, Foot Pedal
30	122424X	Shaft, Foot Pedal
31	1572H	Pin, Roll 3/16 x 1
32	STD551062	Washer 21/32 x 1 x 16 Gauge
34	123792X	Keeper, Belt, Transaxle, R.H.
36	136715	Keeper, Chassis, Center Span
37	109070X	Keeper, Belt
38	4470J	Spacer
39	123674X	Idler, Flat
40	STD523727	Bolt, Hex Head 3/8-16 x 2-3/4
41	134826	Pulley, Engine
42	10040700	Washer, Lock
43	71170768	Bolt, Hex Head 7/16-20 x 4-1/4 Grade 5
44	123791X	Keeper, Belt, Transaxle, L.H.
46	123776X	Bracket, Transaxle, RH.
47	120183X	Bearing, Nylon
48	71040412	Bolt, Hex Head 1/4-28 x 3/4
49	STD551025	Washer 9/32 x 3/4 x 16 Gauge
51	STD541431	Nut, Crownlock 5/16-18
52	74780544	Bolt, Hex Head 5/16-18 x 2-3/4
53	123787X	Strap, Torque
54	123780X	Bracket, Transaxle, L.H.
55	123794X	Shift Arm
56	STD561210	Pin, Cotter 1/8 x 3/4
57	133261	Rod, Parking Brake
58	123786X	Rod, Brake
59	124236X	Cap, Plunger
60	126909X	Spring, Brake Rod
61	STD551037	Washer 13/32 x 13/16 x 16 Gauge
62	123800X	Washer 1-1/32 x 1-5/8 x 16
65	127783	Pulley, Idler, V-Groove
66	123789X	Arm, Idler
67	123205X	Retainer, Belt
68	STD523715	Bolt, Hex Head 3/8-16 X 1-1/2
69	110812X	Washer, Hardened
70	12000039	Ring, Clip
71	105709X	Spring, Return, Clutch
72	105710X	Link, Clutch
73	73530400	Nut 1/4-28
74	132755	Control, Throttle
75	17720410	Screw, Hex Head, Thread Cutting 1/4-20 x 5/8
76	59192	Cap, Valve
77	65139	Stem, Valve
78	124106X	Tire, Rear
79	7152J	Tube (Optional, Service Item Only)
80	124074X361	Rim
81	108097X	Spacer, Split
82	108236X	Bracket, Switch
83	12000053	E-Ring
84	104757X	Cover, Axle, Rear
85	9396E	Key, Square 1/4 x 2
87	17490624	Bolt, Hex Washer Head, Thd., Roll. 3/8-16 x 1-1/2
88	19212016	Washer 21/32 x 1-1/4 x 16 Gauge
89	STD523707	Bolt, Hex Head 3/8-16 x 3/4
90	105706X	Bearing
91	12000008	Ring, Klip
92	123772X	Shaft Assembly, Shifter
93	123782X	Spring, Torsion
94	STD551237	Washer, Lock, Ext. Tooth 3/8
97	STD541437	Locknut 3/8-16
101	17490512	Screw, Hex Washer Head, Thd., Roll. 5/16-18 x 3/4
102	2751R	Clip, Fuel Line
103	123793X	Rod, Tie
104	132922	Spark Arrester Kit
105	110422X	Spring, Brake Return
106	4497H	Clip, Hair Pin
108	13280336	Nipple, Pipe
109	STD522507	Bolt, Hex Head 1/4-20 x 3/4
110	STD551125	Washer, Lock 1/4
111	8545J	Gasket
112	13200300	Elbow, Pipe, Standard 90°
115	- - -	Plug, Oil Drain (Order from Engine Manufacturer)
116	STD601005	Screw, Hex Head, Self-Tapping #10-24 x 1/2
117	73350600	Nut, Hex, Jam 3/8-16 UNC

NOTE: All component dimensions given in U.S. inches
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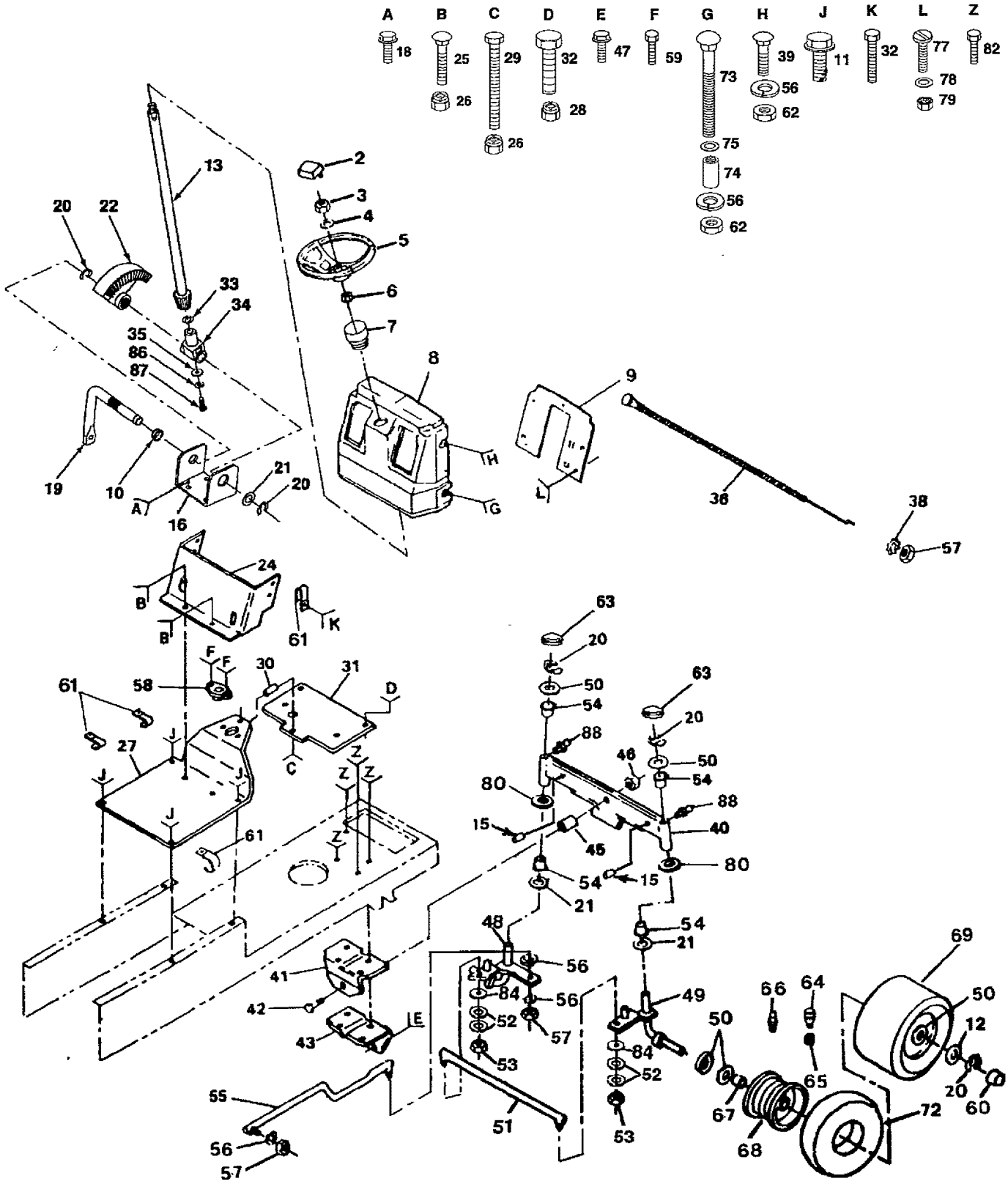
REPAIR PARTS

18 HP 44" TRACTOR - - MODEL NUMBER 917.255890

STEERING AND FRONT AXLE



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REPAIR PARTS

18 HP 44" TRACTOR - - MODEL NUMBER 917.255890

STEERING AND FRONT AXLE

KEY NO.	PART NO.	DESCRIPTION
2	133742	Insert, Steering Wheel
3	73940800	Nut, Toplock 1/2-20 UNF
4	100712K	Washer
5	133741	Steering Wheel
6	100711L	Adapter, Steering Wheel
7	106015X	Sleeve, Steering
8	136696	Dash
9	129621X020	Plate, Dash
10	109816X	Nyliner, Snap-In
11	17490608	Screw, Hex Washer Head, Thd., Roll. 3/8-16-1/2
12	121748X	Washer 25/32 x 1-5/8 x 16 Gauge
13	128755	Shaft, Steering
15	132624	Pin, Axle 5/8 x 1.55/1.54
16	124036X	Bracket, Steering
18	17490612	Screw, Hex Washer Head, Thd., Roll. 3/8-16 x 3/4
19	127501	Shaft, Pitman
20	12000029	Ring, Klip
21	6266H	Bearing, Thrust
22	136874	Gear, Sector
24	105518X	Dash, Lower
25	74180512	Screw, Truss Head 5/16-18 x 3/4
26	STD541431	Nut, Crownlock 5/16-18
27	123783X016	Saddle
28	STD541437	Nut, Crownlock 3/8-16
29	STD523120	Bolt, Hex Head 5/16-18 x 2
30	121236X	Spacer
31	128231	Support Plate, Battery
32	STD523707	Bolt, Hex Head 3/8-16 x 3/4
33	57079	Washer
34	124035X	Shaft, Support
35	126684X	Washer 5/8 x 1/4 x 16 Gauge
36	132779	Control, Choke
38	STD551237	Washer, Lock, Internal/External Tooth 3/8
39	72110608	Bolt, Carriage
40	108075X	Axle, Front
41	105663X	Support, Saddle, Rear
42	74761060	Bolt, Hex Head 5/8-11 x 3-3/4
43	105664X	Support, Saddle, Front
45	110438X	Spacer Bearing, Front Axle
46	73601000	Locknut, Hex W/washer 5/8-11
47	17490508	Screw, Hex Washer Thd. Rolling 5/16-18 x 1/2
48	135227	Spindle, L.H.
49	135228	Spindle, R.H.
50	121749X	Washer 25/32 x 1-1/4 x 16 Gauge
51	130467	Rod, Tie
52	STD551131	Washer, Lock 5/16
53	STD541131	Nut, Hex 5/16-24
54	3366R	Bearing
55	130468	Link, Drag
56	STD551137	Washer, Lock 3/8
57	STD541137	Nut, Hex 3/8-24
58	1554J	Bushing, Steering
59	17431008	Screw, Hex Head #10-16 x 1/2
60	104757X	Cap, Hub, Front
61	2751R	Clip, Fuel Line
62	STD541037	Nut, Hex 3/8-16
63	121232X	Spindle, Cap
64	59192	Cap, Valve
65	65139	Stem, Valve
66	278H	Fitting, Grease
67	9040H	Bearing
68	106732X361	Rim, Front
69	106222X	Tire, Front
72	59904	Tube (Optional, Service Item Only)
73	72110622	Bolt, Carriage 3/8-16 x 2-3/4
74	121235X	Spacer
75	19131416	Washer 13/32 x 7/8 x 16 Gauge
77	STD512507	Screw, Pan Head 1/4-20 x 3/4
78	19091216	Washer 13/32 x 3/4 x 16 Gauge
79	73510400	Nut, Hex, Keps 1/4 NC
80	19272016	Washer 27/32 x 1-1/4 x 16 Gauge
82	122819X	Screw, Special 3/8-16 x 3/4
84	19111216	Washer 11/32 x 3/4 x 16 Gauge
86	STD551125	Washer, Lock 1/4
87	71070410	Screw, Hex Socket Head 1/4 x 20 x 5/8
88	6855M	Fitting, Grease

NOTE: All component dimensions given in U.S. inches
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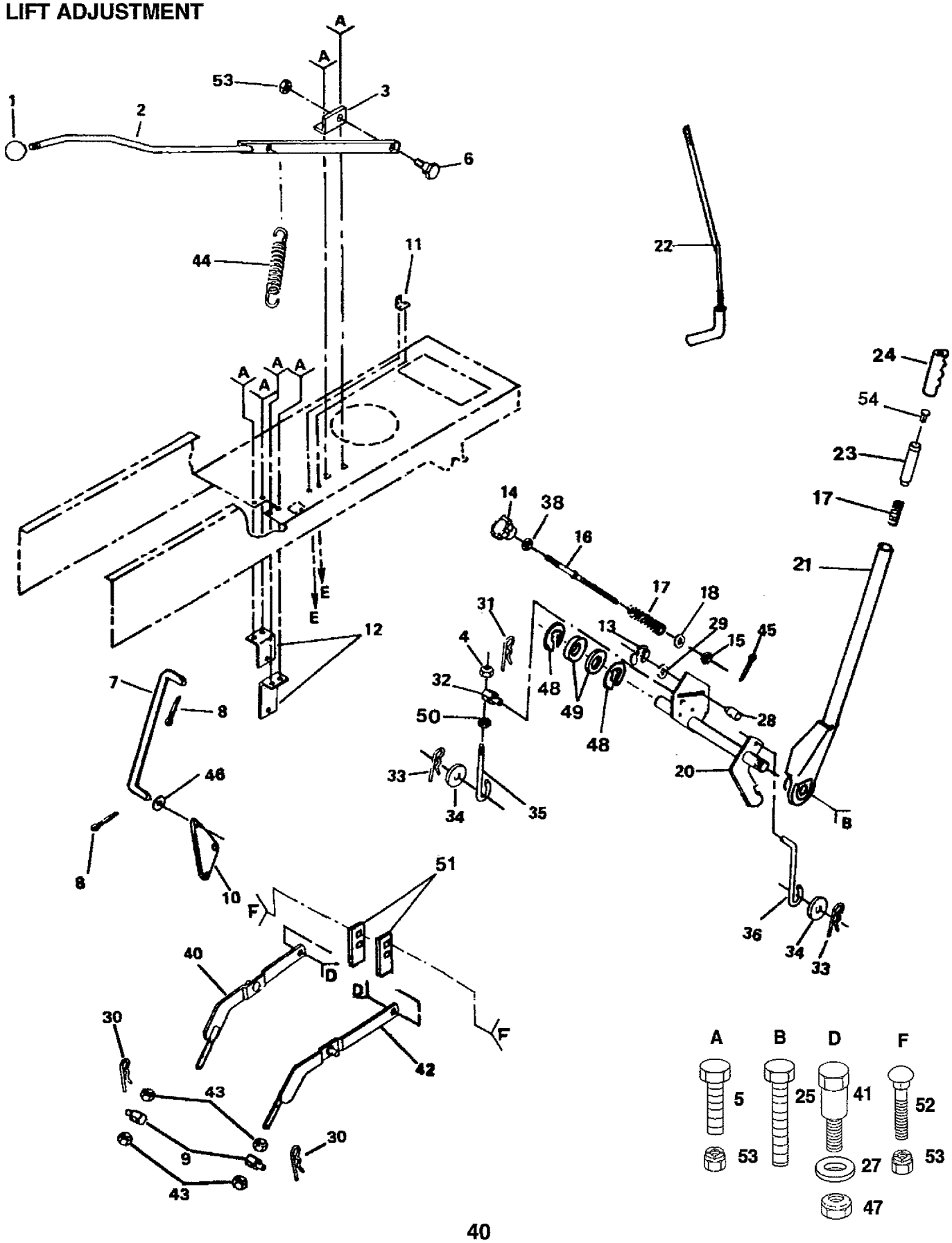
REPAIR PARTS

18 HP 44" TRACTOR - - MODEL NUMBER 917.255890

LIFT ADJUSTMENT



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REPAIR PARTS

18 HP 44" TRACTOR - - MODEL NUMBER 917.255890

LIFT ADJUSTMENT

KEY NO.	PART NO.	DESCRIPTION
1	106933X	Knob
2	110924X	Lever, Mower Clutch
3	138170	Bracket, Pivot
4	73710700	Nut, Crownlock, Jam 7/16-20 UNF
5	STD523707	Bolt, Hex Head 3/8-16 x 3/4
6	106451X	Bolt, Shoulder
7	108387X	Rod, Clutch, Primary
8	76020412	Pin, Cotter 1/8 x 3/4
9	106308X	Trunnion, Lift, Lower
10	109728X	Bellcrank
12	106444X	Bracket, Bellcrank
13	12000037	Ring, Klip
14	100734K	Knob, Height Adjustment
15	110807X	Nut, Special
16	110729X	Rod, Adjust, Lift
17	2876H	Spring
18	19131016	Washer 13/32 x 5/8 x 16 Gauge
20	121000X	Shaft, Lift
21	121002X	Lever, Lift (Includes Key No. 22)
22	121006X	Rod, Lever
23	122364X	Plunger, Lever
24	125631X	Grip, Handle
25	STD523715	Bolt, Hex Head 3/8-16 x 1-1/2
27	110739X	Washer, Spring 3/8
28	110810X	Trunnion, Depth Stop
29	19151216	Washer 15/32 x 3/4 x 16 Gauge
30	9135R	Clip, Retainer
31	4939M	Spring, Retainer
32	110447X	Trunnion, Lift
33	4921H	Retainer Spring
34	19171516	Washer 17/32 x 15/16 x 16 Gauge
35	110448X	Link, Lift Adjust
36	110029X	Link, Lift
38	STD541237	Nut, Hex, Jam 3/8-16
40	121599X	Arm, Suspension. L.H.
41	105848X	Bolt, Shoulder 3/8-16
42	121598X	Arm, Suspension, R.H.
43	STD541050	Nut, Hex, Fin. 1/2-13
44	58606	Spring
45	76020308	Pin, Cotter 3/32 x 1/2
46	19131410	Washer 13/32 x 7/8 x 10 Gauge
47	73980600	Locknut 3/8-16
48	12000022	E-Ring
49	19292016	Washer 29/32 x 1-1/4 x 16 Gauge
50	73360700	Nut, Hex 7/16-20 UNF
51	121252X	Upstop, Mower
52	72140608	Bolt, Carriage 3/8-16 x 1
53	73680600	Nut, Crownlock 3/8-16
54	122365X	Button, Plunger

NOTE: All component dimensions given in U.S. inches
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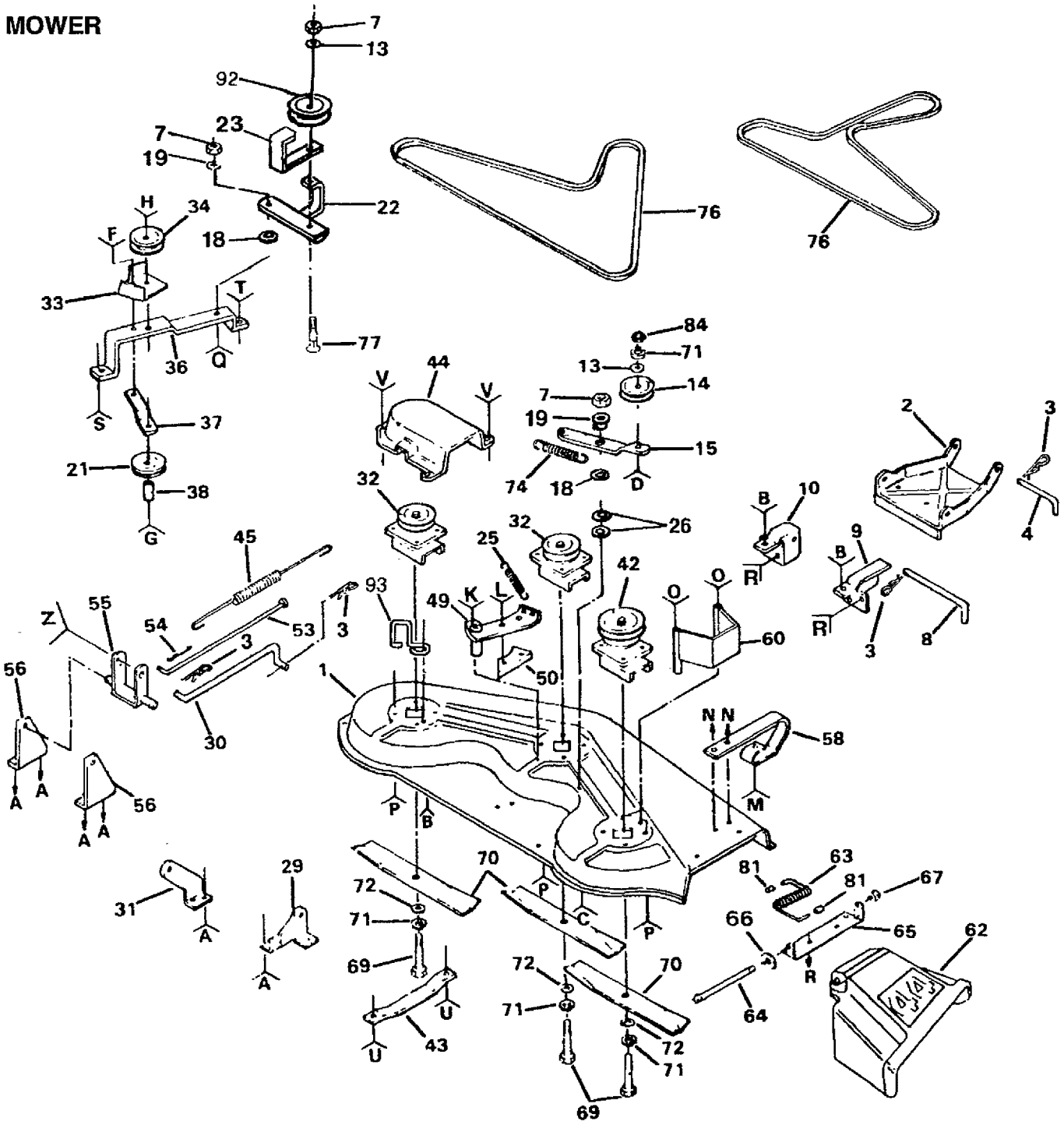
REPAIR PARTS

18 HP 44" TRACTOR - - MODEL NUMBER 917.255890

MOWER



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REPAIR PARTS

18 HP 44" TRACTOR - - MODEL NUMBER 917.255890

MOWER

KEY NO.	PART NO.	DESCRIPTION
1	121423X	Housing, Mower
2	129762	Stop Assembly, Parallel Link
3	4921H	Retainer, Spring
4	105744X	Hinge Pin, Front
7	73680600	Nut, Crownlock 3/8-16
8	109835X	Hinge Pin, Rear
9	106512X	Bracket, Lift, R.H.
10	106511X	Bracket, Lift, L.H.
11	STD533107	Bolt, Carriage 5/16-18 x 3/4
12	73680500	Nut, Crownlock 5/16-18
13	19131614	Washer 13/32 x 1 x 14 Gauge
14	102932X	Idler, Flat
15	106526X	Arm, Idler Deck
16	74110632	Screw, Flat Head 3/8-16 x 2
17	STD523712	Bolt, Hex Head 3/8-16 x 1-1/4
18	106513X	Washer, Wear
19	106902X	Spacer
20	72110505	Bolt, Carriage 5/16-18 x 5/8
21	102403X	Pulley, Idler
22	121424X	Arm, Idler
23	121426X	Guide, Belt
24	72110506	Bolt, Carriage 5/16-18 x 3/4
25	106530X	Spring
26	19111216	Washer 11/32 x 3/4 x 16 Gauge
27	1685H	Locknut 5/16-18
29	123807X	Bracket, Suspension, Rear, R.H.
30	108235X	Rod, Clutch
31	123808X	Bracket, Suspension, Rear, L.H.
32	136818	Mandrel, Secondary
33	106529X	Guide, Belt
34	677A451	Pulley, Idler
36	106523X	Bar, Support, Idler
37	106522X	Brace, Idler, Deck
38	121236X	Spacer
40	STD523730	Bolt, Hex Head 3/8-16 x 3
41	STD533710	Bolt, Carriage 3/8-16 x 1
42	121704X	Mandrel, Primary
43	7631J	Runner, L.H.
44	106214X	Guard
45	121427X	Spring, Extension
46	121827X	Bolt, Shoulder
47	73930600	Nut, Centerlock 3/8-16
49	106606X	Arm, Brake
50	102951X	Brake, Block
51	STD551031	Washer 11/32 x 11/16 x 16 Gauge
52	STD523112	Bolt, Hex Head 5/16-18 x 1-1/4
53	108394X	Rod, Brake
54	STD560907	Pin, Cotter 3/32 x 3/4
55	110384X	Shaft, Rock
56	108393X	Support, Rock Shaft
58	136321	Runner, R.H.
60	102924X	Guard, Belt, R.H.
61	74760580	Bolt, Hex Head 5/16-18 x 5
62	109785X	Shield, Deflector
63	106734X	Spring
64	106735X	Rod, Hinge
65	137607	Bracket, Deflector
66	19111016	Washer 11/32 x 5/8 x 16 Gauge
67	110452X	Nut, Push
68	STD533707	Bolt, Carriage 3/8-16 x 3/4
69	STD623715	Bolt, Hex Head 3/8-24 x 1-1/2 Grade 5
70	106635X	Blade
71	STD551137	Washer, Lock 3/8
72	19132012	Washer 13/32 x 1-1/4 x 12 Gauge
73	17490612	Screw, Hex Washer Head, Thd., Roll. 3/8-16 x 3/4
74	7644J	Spring, Extension
75	72140612	Bolt, Carriage 3/8-16 x 1-1/2
76	106085X	V-Belt
77	72140616	Bolt, Carriage 3/8-16 x 2
81	105304X	Cap, Sleeve
82	STD523710	Bolt, Hex Head 3/8-16 x 1
84	STD541037	Nut, Hex 3/8-16
85	STD541031	Nut, Hex 5/16- 18
86	STD551131	Washer, Lock 5/16
89	74760412	Bolt, Hex Head 1/4-20 x 3/4
90	19091616	Washer 9/32 x 1 x 16 Gauge
91	73680400	Nut, Crownlock 1/4-20
92	121316X	Pully, Idler
93	121352X	Keeper, Belt
94	19131316	Washer 13/32 x 13/16 x 16 Gauge
95	19131410	Washer 13/32 x 7/8 x 10 Gauge
- -	121825X	Replacement Mower Deck

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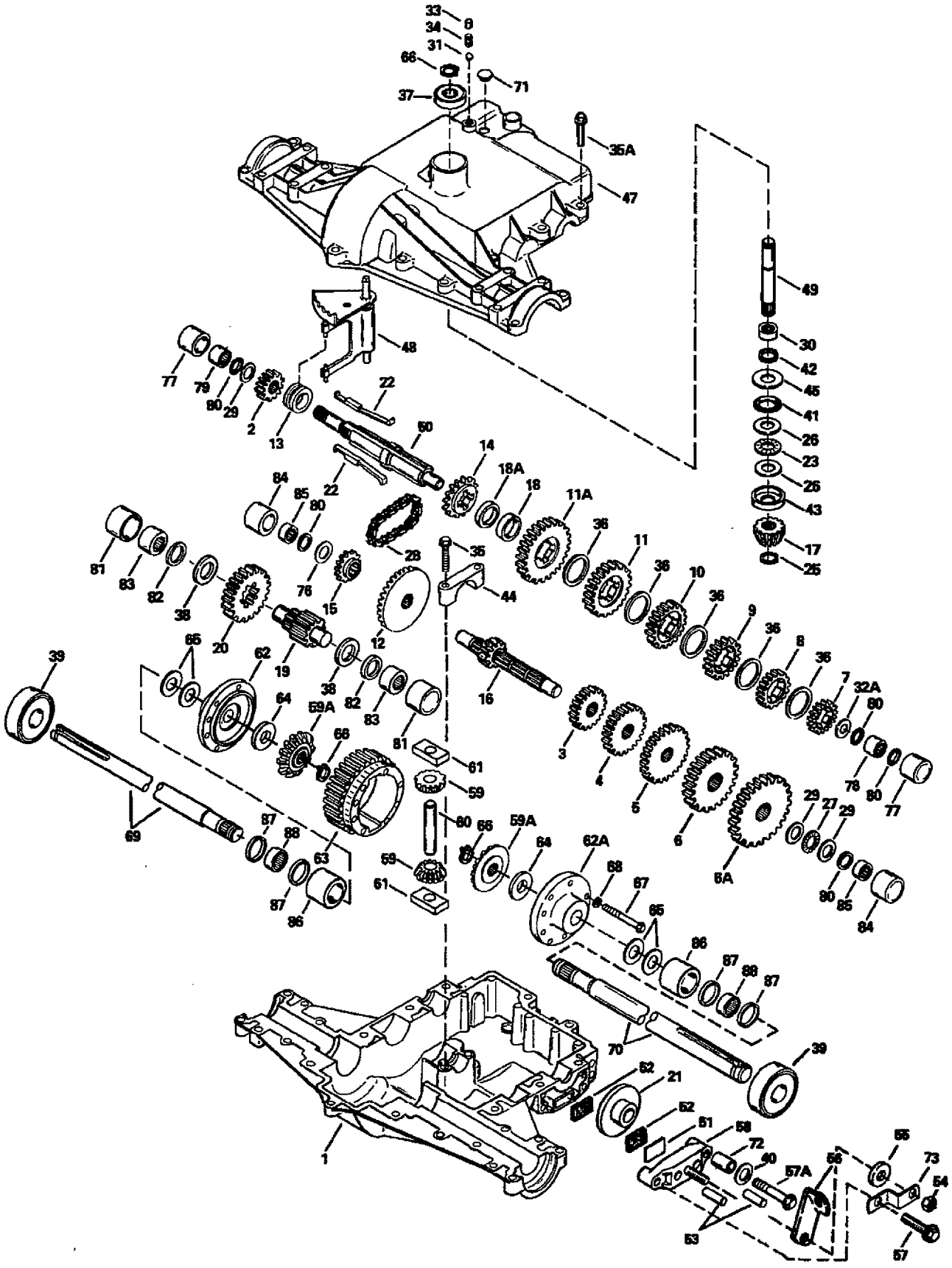
REPAIR PARTS

18 HP 44" TRACTOR - - MODEL NUMBER 917.255890

PEERLESS TRANSAXLE - MODEL NUMBER 143.820-016



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REPAIR PARTS

18 HP 44" TRACTOR - - MODEL NUMBER 917.255890

PEERLESS TRANSAXLE- MODEL NUMBER 143.820-016

REF NO.	PART NO.	DESCRIPTION
1	770088	Case, Transaxle
2	778253	Gear, Spur 15 Teeth
3	778211	Gear, Spur 12 Teeth
4	778240	Gear, Spur 18 Teeth
5	778201	Gear, Spur 25 Teeth
6	778202	Gear, Spur 28 Teeth
6A	778208	Gear, Spur 31 Teeth
7	778209	Gear, Spur 19 Teeth
8	778203A	Gear, Spur 22 Teeth
9	778204A	Gear, Spur 25 Teeth
10	778239A	Gear, Spur 32 Teeth
11	778207A	Gear, Spur 37 Teeth
11A	778216A	Gear, Spur 41 Teeth
12	778246	Gear, Bevel 33 Teeth
13	784216	Collar, Shift
14	786123	Sprocket 18 Teeth
15	786082	Sprocket 9 Teeth
16	776291	Shaft, Counter (with 9 Tooth Gear)
17	778245	Bevel Pinion, Input 13 Teeth
18	786121	Spacer, Neutral .350/.340 Thick
18A	786122	Spacer, Neutral .276/.268 Thick
19	776275	Shaft, Output 9 Teeth
20	778247	Gear, Output 35 Teeth
21	790043	Disk, Brake
22	792138	Key
23	780084	Bearing, Thrust
25	788040	Ring, Retaining
26	780051	Washer, Thrust
27	780071	Bearing, Thrust
28	786081	Chain, Roller (Number 41 Chain, 24 Links)
29	780072	Washer, Thrust
30	780155	Bearing, Needle
31	792077	Ball, Steel
32A	780139	Washer, Thrust
33	792078	Screw, Set 3/8-16 x 3/8
34	792079	Spring
35	792073	Screw, Flanged Hex Head, Thread Forming 1/4-20 x 1-1/4
35A	792129	Screw, Hex Head, Thread Forming 5/16-18 x 1-1/4
36	780108	Washer, Thrust
37	780119	Bearing, Ball
38	780128	Washer, Thrust
39	780050	Bearing, Ball
40	792128	Washer, Flat
41	788077	"O" Ring
42	788042	Seal, Oil
43	780166	Washer, Cupped
44	786131	Cap, Bearing
45	780165	Washer, Flat
47	772098	Cover, Transaxle
48	784342	Rod and Fork Assembly, Shift
49	776274	Shaft, Input
50	776313	Shaft, Brake, 4 Keyed
51	790007	Plate, Brake Pad
52	790006	Pad, Brake
53	786026	Pin, Dowel
54	792075	Locknut 5/16-24
55	792076	Washer, Flat
56	790047	Lever, Brake
57	792073	Screw, Flanged Hex Head, Thread Forming 1/4-20 x 1-1/4
57A	792085	Screw, Flanged Hex Head, Thread Forming 1/4-20 x 2-1/4
58	790025	Holder, Brake Pad
59	778197	Pinion, Differential Bevel
59A	778198	Gear, Bevel
60	786019	Pin, Drive
61	786027	Block, Drive
62	774833	Carrier, Differential, Threaded Holes
62A	774834	Carrier, Differential
63	778248	Gear, Ring 31 Teeth
64	780107	Washer
65	780042	Washer, Thrust
66	792018	Ring, Snap
67	792020	Screw, Hex Head 1/4-20 x 2-1/4
68	792006	Washer, Lock 1/4
69	774832	Axle 12-5/16"
70	774831	Axle 16-3/16"
71	792074	Plug, Hex Head 9/16-18 Thread
72	786067	Spacer
73	786086	Bracket, Brake Lever
76	780153	Washer
77	786144	Sleeve, Stepped
78	780150	Bearing, Needle
79	780152	Bearing, Needle, Capped
80	792001	"O" Ring
81	786142	Sleeve, Stepped
82	788071	Ring, Square Cut
83	780049	Bearing, Needle, Capped
84	786143	Sleeve, Stepped
85	780151	Bearing, Needle, Capped
86	786145	Sleeve, Stepped
87	788070	Ring, Square Cut
88	780031	Bearing, Needle

NOTE: All component dimensions given in U.S. inches
1 inch = 25.4 mm

Parts must be ordered from Tecumseh Products Co.

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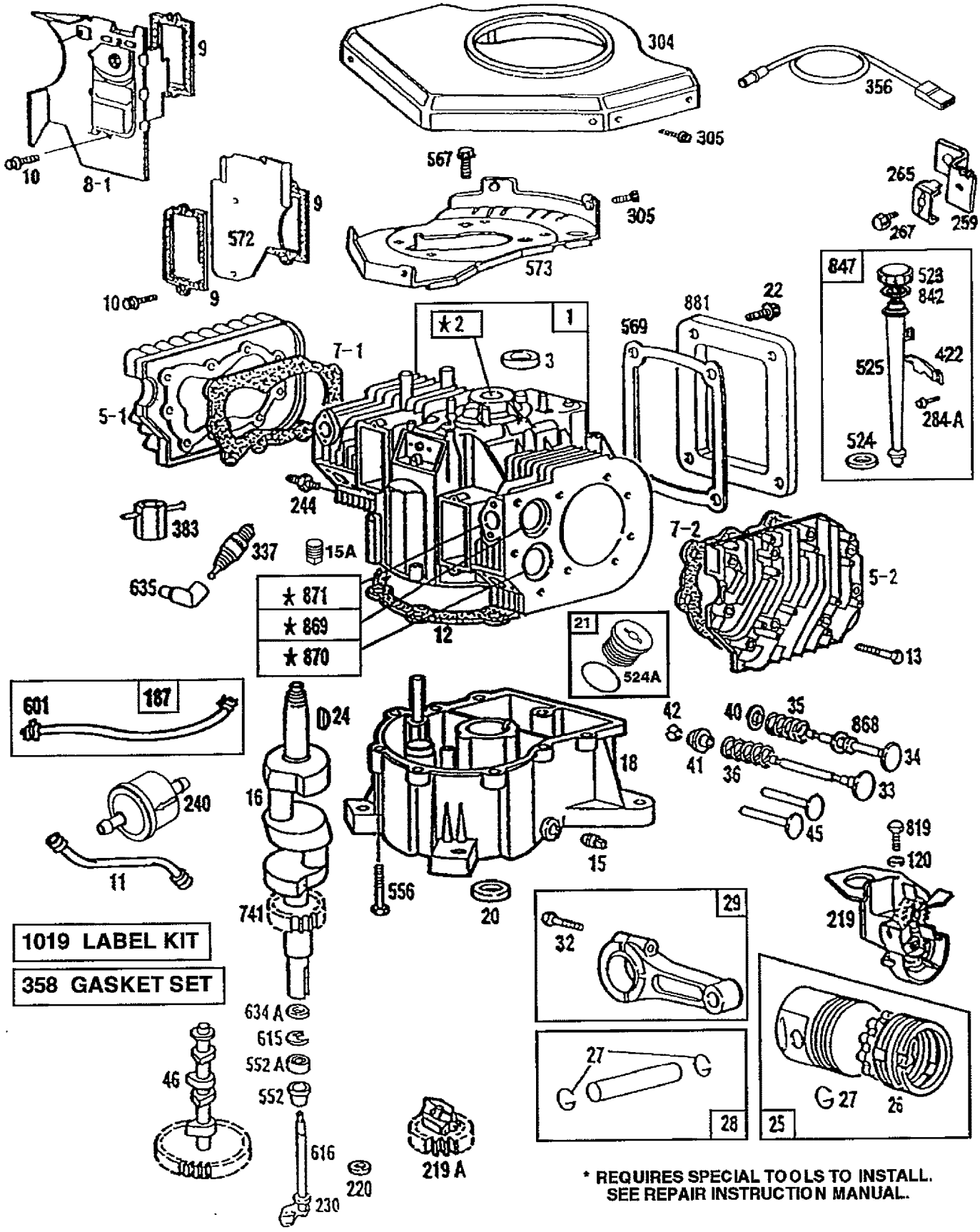
REPAIR PARTS

18 HP 44" TRACTOR - - MODEL NUMBER 917.255890

BRIGGS & STRATTON ENGINE - MODEL NUMBER 422707, TYPE NUMBER 1254-01

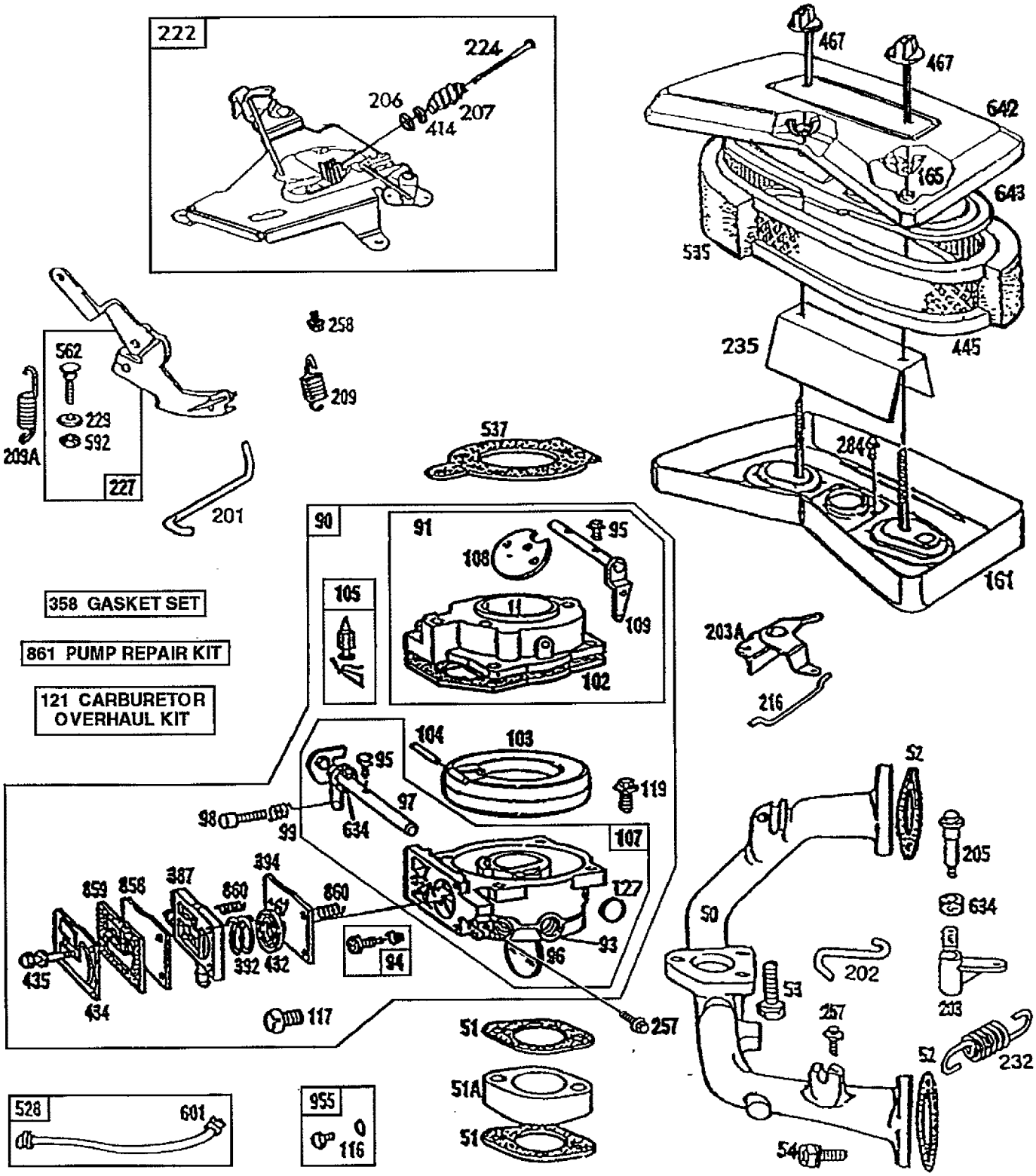


* REQUIRES SPECIAL TOOLS TO INSTALL. SEE REPAIR INSTRUCTION MANUAL.

REPAIR PARTS

18 HP 44" TRACTOR - - MODEL NUMBER 917.255890

BRIGGS & STRATTON ENGINE - MODEL NUMBER 422707, TYPE NUMBER 1254-01



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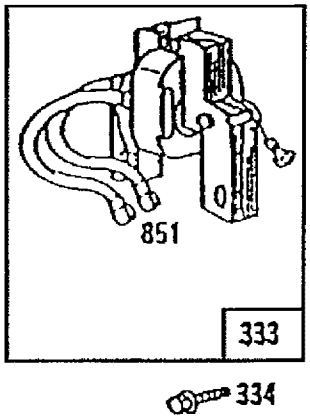

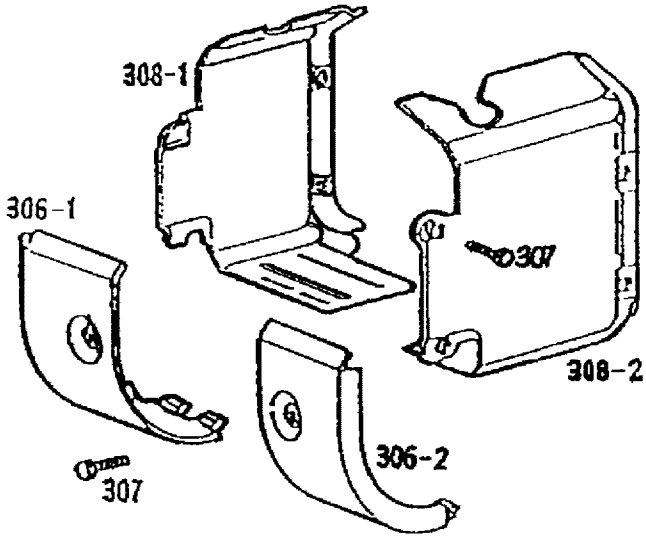

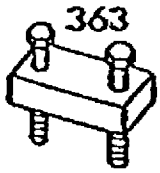

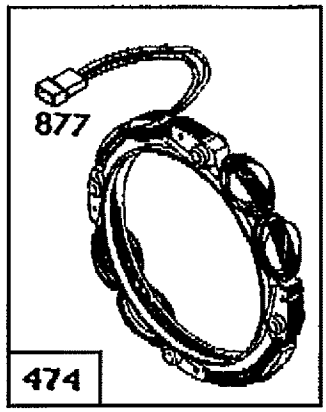

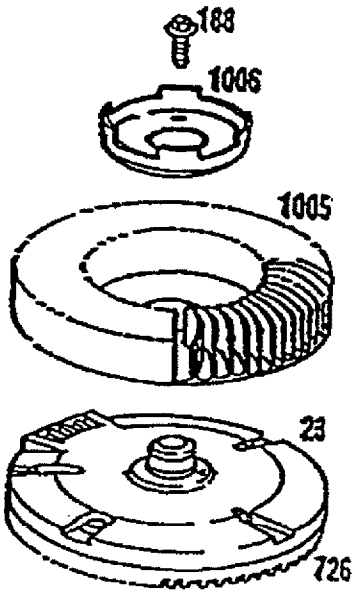

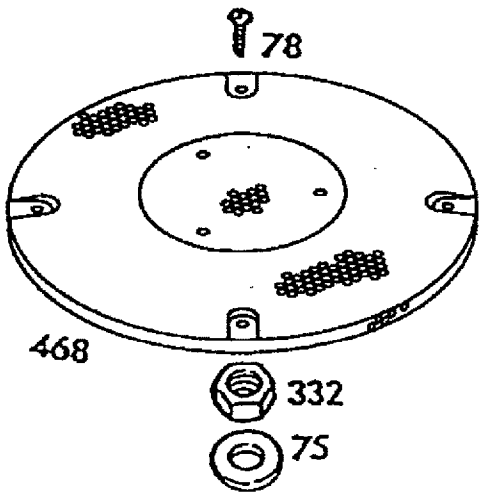

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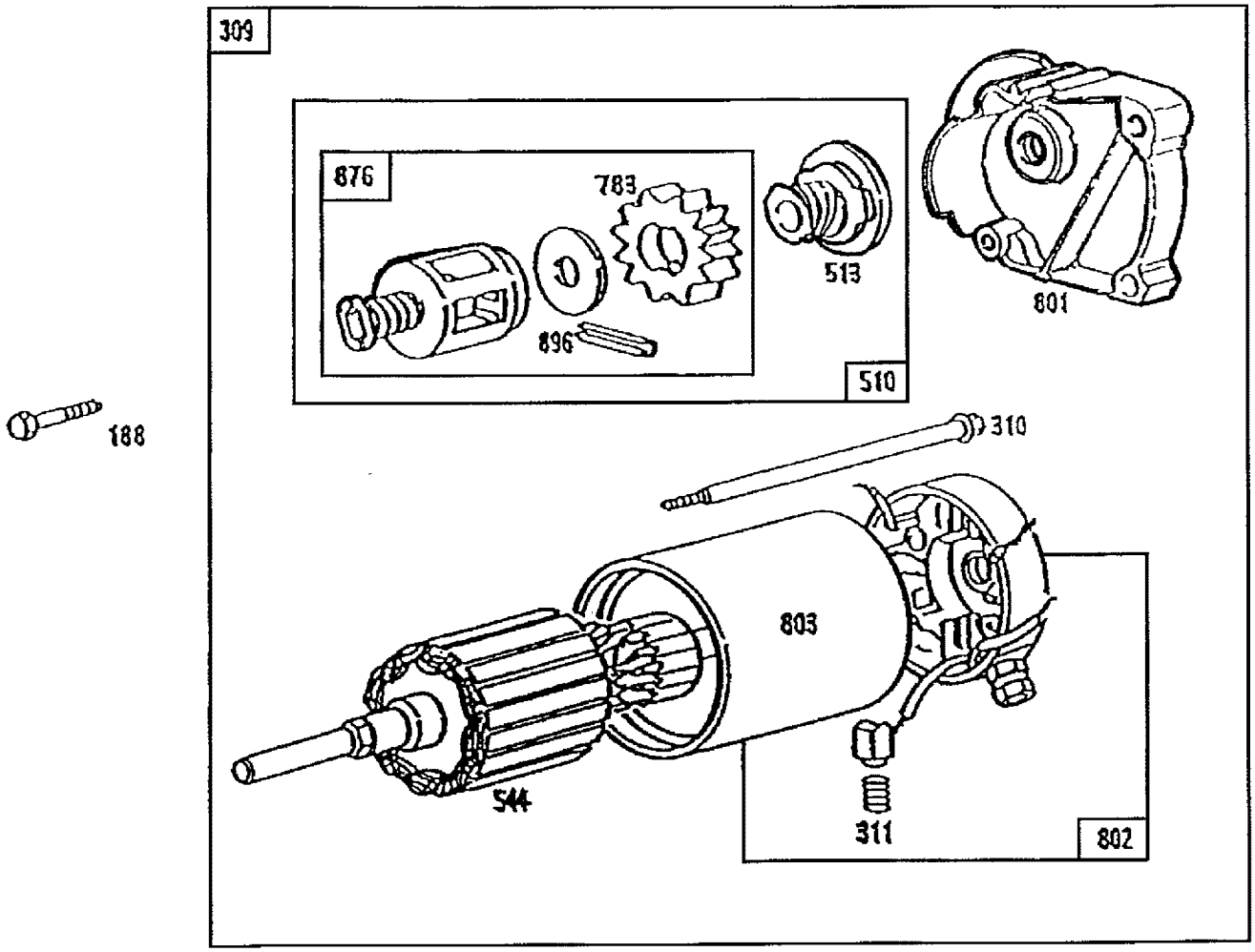
REPAIR PARTS

18 HP 44" TRACTOR - - MODEL NUMBER 917.255890

BRIGGS & STRATTON ENGINE - MODEL NUMBER 422707, TYPE NUMBER 1254-01



Reference Number		309	310	311	544	801	802	803
Manufacturer		Motor and Drive Ass'y.	Thru Bolt Assembly	Brush Assembly	Armature Assembly	Drive End Cap Assembly	End Cap Ass'y. Commutator	Housing Assembly
Briggs & Stratton	Housing Length							
12V	3-5/8"	394808	94003	395538	390837	394860	395537*	398159

*Includes Brush Set

Reference Number	510	513	783	876	896
Starter Motor Mfr.	Starter Drive Group	Clutch Assembly	Gear	Pinion Spring Kit	Roll Pin
Briggs & Stratton					
12V	490421	398003	280104	490467	94288(Copper)

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REPAIR PARTS

18 HP 44" TRACTOR - - MODEL NUMBER 917.255890

BRIGGS & STRATTON ENGINE - MODEL NUMBER 422707, TYPE NUMBER 1254-01

KEY NO.	PART NO.	DESCRIPTION
1	494533	Cylinder Assembly
2	399265	Bearing, Cylinder
3	391086	Seal, Oil
5-1	493457	Head, Cylinder Number 1
5-2	493458	Head, Cylinder Number 2
7-1	271867	* Gasket, Cylinder Head Number 1
7-2	271868	* Gasket, Cylinder Head Number 2
8-1	398065	Breather Assembly Number 1
8-2	222892	Cover, Breather, Cylinder Number 2 (Use with Key Number 572, Air Baffle with Mounting Holes)
9	27803	* Gasket, Valve Cover
10	94382	Screw, Sems
11	280225	Tube, Breather
12	271703	* Gasket, Crankcase Cover, 1/64"
	271188	* Gasket, Crankcase Cover, .005"
	271189	* Gasket, Crankcase Cover, .009"
13	94565	Screw, Cylinder Head
15	94239	Plug, Oil Drain
15A	94497	Plug, Pipe
16	394028	Crankshaft
	94196	Key, Timing Gear
18	493304	Base Assembly, Crankcase
20	291675	Seal, Oil
21	399195	Seal Assembly, Cylinder Plug
22	90887	Screw, Sems, Crankcase Cover Mounting Uses: 92268 Washer, Lock
23	491180	Flywheel and Ring Gear Assembly, Magneto
24	222698	Key, Flywheel
25	394955	Piston Assembly, Standard Size
	394956	Piston Assembly, .010" Oversize
	394957	Piston Assembly, .020" Oversize
	394958	Pision Assembly, .030" Oversize
26	394959	Ring Set, Piston, Standard Size
	394960	Ring Set, Piston, .010" Oversize
	394961	Ring Set, Piston, .020" Oversize
	394962	Ring Set, Piston, .030" Oversize
27	260924	Lock, Piston Pin
28	299691	Pin Assy., Piston, Standard Size
	391286	Pin Assy., Piston .005" Oversize
29	394306	Rod Assembly, Connecting
	397158	Rod Assembly, Connecting, .020" Undersize Crankpin Bore
32	94671	Screw, Connecting Rod
33	390420	Valve, Exhaust
34	261528	Valve, Intake Uses: 393606 Seal Assembly and Retainer (Key Number 868)
35	65906	Spring, Intake Valve
36	26828	Spring, Exhaust Valve
40	221596	Retainer, Intake Valve
41	292260	Rotocoil, Exhaust Valve
42	93630	Retainer, Exhaust Valve Rotocoil(2)
45	261368	Tappet, Valve
46	213421	Gear, Cam
50	213290	Manifold, Intake
51	271412	*** Gasket, Carburetor & Intake Elbow
51A	280319	Spacer, Carburetor
52	270884	* Gasket, Intake Manifold Mounting
53	93970	Screw, Sems, Carburetor Mounting
54	93208	Screw, Sems, Intake Manifold Mnt.
75	222511	Washer, Spring
78	94326	Screw, Sems
81	223016	Lock, Muffler Screw
90	495181	Carburetor Assembly
91	495035	Body Assembly, Upper Carburetor
93	231209	Bushing, Throttle Shaft
94	491538	** Valve Assembly, Carburetor Idle
95	93499	Screw, Sems, Throttle and Choke Valve Mounting
96	221939	Valve, Throttle
97	392672	Shaft and Lever, Throttle
98	91920	Screw, Machine, Fillister Head
99	26157	Spring, Throttle Adjustment
102	271607	** Gasket, Carburetor Body
103	298514	Float, Carburetor
104	230896	** Pin, Float Hinge
105	394683	** Valve, Fuel Inlet
107	491543	Body, Lower Carburetor
108	223534	Valve, Choke
109	392673	Shaft and Lever, Choke
116	280474	O-Ring
117	231338	Jet, Needle Valve
119	94152	Screw, Sems, Hex Head
120	92290	Washer, Lock
121	491539	Carburetor Overhaul Kit
127	223472	Plug, Welch
161	398826	Body, Air Cleaner
165	94289	Nut, Wing
187	299146	Line, Fuel, 28" (Cut to Suit)
188	93535	Screw, Hex Head
201	262683	Link, Governor
202	262684	Link, Throttle
203	280997	Crank, Bell
203A	490207	Crank, Bell
205	93971	Screw, Shoulder
206	94298	Nut, Square
207	262337	Spring, Compression
209	262351	Spring, Governor
209A	261563	Spring, Governor Idle
216	262375	Link
219	393415	Oil Slinger Assembly

* Included in Gasket Set (491856)

** Included in Carburetor Overhaul Kit (491539)

*** Included in both Gasket Set (491856), and Carburetor Overhaul Kit (491539)

NOTE: All component dimensions given in U.S. inches
1 inch = 25.4 mm

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REPAIR PARTS

18 HP 44" TRACTOR - - MODEL NUMBER 917.255890

BRIGGS & STRATTON ENGINE - MODEL NUMBER 422707, TYPE NUMBER 1254-01

KEY NO.	PART NO.	DESCRIPTION
219A	394348	Gear, Governor
220	222773	Washer, Thrust
222	491282	Plate Assembly, Governor Control
224	94297	Screw, Pan Head
227	491297	Lever Assembly, Governor
229	62199	Washer
230	223882	Washer, Governor Crank, Inside
232	262539	Spring, Governor Control
235	224039	Shield, Spitback
240	493629	Filter, Fuel (In Fuel Line to Tank)
244	230318	Connector, Impulse Pump
257	93897	Screw, Sems
258	93949	Screw, Sems
259	223890	Bracket, Cable
265	221535	Clamp, Casing
267	93496	Screw, Hex Head
284	94264	Screw, Hex Head
284A	93469	Screw, Hex Head
304	492656	Housing, Blower
305	94608	Screw, Sems 1/2
	94513	Screw, Sems 3/4
306-1	222846	Shield, Cylinder
306-2	223734	Shield, Cylinder
307	94386	Screw, Sems
308-1	222848	Cover, Air Guide
308-2	222849	Cover, Air Guide
309	- - -	Motor, Starting (See Chart on Illustrated Pages for Replacement Parts for Starting Motors)
319	394988	Armature Assembly
332	230674	Nut, Hex
333	394891	Armature Group, MAGNETRON® Ignition
334	93381	Screw, Sems, Armature Mounting
337	802592	Plug, Spark, Resistor (with Gasket)
356	494705	Wire, Ground
358	491856	Gasket Set
363	19203	Puller, Flywheel (Optional Accessory)
383	89838	Wrench, Spark Plug
387	280197	Body, Pump
392	261395	**** Spring, Pump
394	270988	**** Diaphragm
414	223882	Washer
422	222875	Clamp, Oil Filler
432	221377	**** Cap, Spring
434	223688	Cover, Diaphragm
435	93829	Screw, Diaphragm Cover
445	394019	Cartridge, Air Cleaner
467	493903	Knob, Air Cleaner
468	224521	Screen, Flush Rotating
474	393474	Stator, Alternator, Dual Circuit
482	93621	Screw, Sems
523	494927	Cap and Dipstick, Oil Filler
524	271157	Seal, Filler Tube
524A	271485	Seal, Tube
525	495348	Tube, Oil Filler
528	393815	Impulse Line and Clamp Assembly
535	271271	Element, Air Cleaner
537	271411	*** Gasket, Air Cleaner
552	262332	Lower Bushing, Governor
552A	262331	Upper Bushing, Governor
556	93585	Screw, Sems, Hex Head
562	93853	Bolt, Governor Lever
567	93777	Screw, Hex Head, Back Plate to Cylinder
569	270981	* Gasket, Crankcase
572	224580	Baffle, Air, Cylinder Number 2
573	491304	Back Plate Assembly
592	92278	Nut, Hex
601	93053	Clamp, Fuel Line
615	94296	Retainer, E-Ring
616	491530	Crank, Governor
634	271013	** Washer, Throtte Shaft
634A	491287	Seal, Governor Shaft
635	66538	Elbow, Spark Plug
642	223579	Cover, Air Cleaner
643	223714	Cartridge Plate, Air Cleaner
726	391362	Gear, Flywheel Ring (Includes Mounting Parts)
741	262694	Gear, Timing
819	94675	Screw, Hex Head
842	271170	Seal, Oil Filler Cap
847	394394	Dipstick and Tube Assembly
851	221798	Terminal, Ignition Cable
858	270989	**** Diaphragm, Damping
859	271025	**** Gasket, Carburetor Pump
860	261358	**** Spring (2)
861	393397	Repair Kit, Pump
868	393606	Seal Assembly and Retainer
869	261463	Seat, Intake Valve, Standard
870	213316	Seat, Exhaust Valve, Standard
871	261961	Guide, Exhaust Valve
	231218	Guide, Intake Valve (See Manual)
877	393456	Connector Assembly
881	212455	Cover Plate, Crankcase
955	397882	Plug and Seal, Solenoid
1005	280815	Fan, Flywheel
1006	224413	Retainer, Fan
1019	491262	Decal Kit

RPM Settings: Low Speed: 1100-1400
High Speed: 3500-3700

* Included in Gasket Set (491856)

** Included in Carburetor Overhaul Kit (491539)

*** Included in both Gasket Set (491856), and Carburetor Overhaul Kit (491539)

**** Included in both Carburetor Overhaul Kit (491539), and Pump Repair Kit (393397)

NOTE: All component dimensions given in U.S. inches
1 inch = 25.4 mm

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SERVICE NOTES

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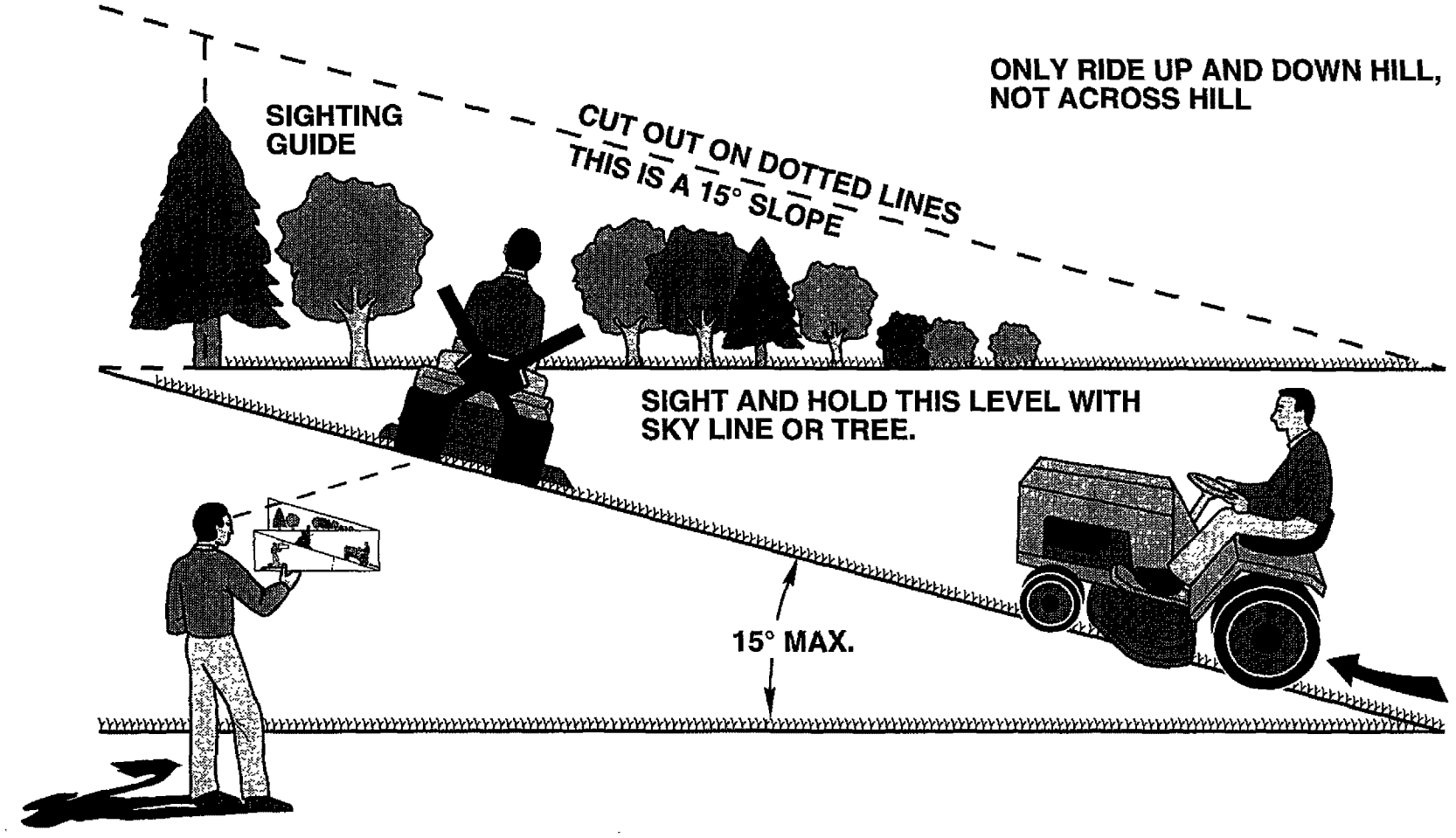
SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION


SIGHTING GUIDE
CUT OUT ON DOTTED LINES
THIS IS A 15° SLOPE
ONLY RIDE UP AND DOWN HILL, NOT ACROSS HILL
SIGHT AND HOLD THIS LEVEL WITH SKY LINE OR TREE.
15° MAX.

Operate your Tractor up and down the face of slopes (not greater than 15°), never across the face. Make turns gradually to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.

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SEARS

OWNER'S MANUAL

MODEL NO. 917.255890

HOW TO ORDER REPAIR PARTS

CRAFTSMAN®

18.0 HP TWIN CYLINDER ELECTRIC START 44" MOWER 6 SPEED TRANSAXLE GARDEN TRACTOR

Each tractor has its own model number. Each engine has its own model number.

The model number for your tractor will be found on the model plate located under the seat.

The model number for your engine will be found on the blower housing of the engine.

All parts listed herein may be ordered from any Sears, Roebuck and Co. Service Center/Department and most Retail Stores.

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:

- **PRODUCT - GARDEN TRACTOR**
- **MODEL NUMBER - 917.255890**
- **ENGINE MODEL NO. - 422707, TYPE NO. 1254-01**
- **PART NUMBER**
- **PART DESCRIPTION**

Your Sears merchandise has added value when you consider Sears has service units nationwide staffed with Sears trained technicians... professional technicians specifically trained to insure that we meet our pledge to you, we service what we sell.

137758 Rev. 1 2.19.93

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